# Extended Power Quality Data Interchange Formats

This global standard define the formats adopted to exchange PQ measurements and events between PQI and PQMS, mainly based on extension to international standard formats (particurarly PQDIF according to IEEE 1159.3).

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|---|---|---|
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| 02 | 05.04.2019 | Second approved edition. Updated list of HTTP REST variables. IEC 61850 introduction. |

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**TABLES**

# 1 ACRONYMS

- **PQ** Power Quality
- **PQI** Power Quality Instrument according to IEC 62586-1
- **RTU** Remote Terminal Unit
- **GPS** Global Positioning System
- **GPSR** GPS Receiver Time Syncro Receiver
- **PQMS** Power Quality Management System
- **DNP3** Distributed Network Protocol
- **REST** Representational State Transfer
- **COMTRADE** Common format for Transient Data Exchange for power systems
- **DNS** Domain Name System
- **DHCP** Dynamic Host Configuration Protocol
- **DHCPv6** Dynamic Host Configuration Protocol (IPv6)
- **JSON** JavaScript Object Notation
- **CSV** Comma-separated values
- **TCP** Transmission Control Protocol
- **HTTP** Hypertext Transfer Protocol
- **HTTPS** Hypertext Transfer Protocol Secure

## 2 NORMATIVE REFERENCES AND BIBLIOGRAPHY

All the references are intended in the last revision or amendement.

### 2.1 For all countries

| | |
|---|---|
| IEC 61000-4-30 | Electromagnetic compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurement methods. |
| IEEE 1159.3 | IEEE Recommended Practice for the Transfer of Power Quality Data. |
| IEEE C37.111 | IEEE Standard Common Format for Transient Data Exchange (COMTRADE) for Power Systems |
| ISO 8601:2004 | Data elements and interchange formats – Information interchange – Representation of dates and times |
| ECMA-404 (October 2013) | The JSON Data Interchange Format |
| RFC 4180 (October 2005) | Common Format and MIME Type for Comma-Separated Values (CSV) Files |
| RFC 791 | Internet Protocol, Version 4 (IPv4) |
| RFC 2460 | Internet Protocol, Version 6 (IPv6) |
| Appnote,1 APPNOTE.TX | ZIP File Format Specification, PKWARE® Inc., September 2012 |
| NMEA 0183 | National Marine Electronics Association electrical signal requirements, data transmission protocol and time, and specific sentence formats for a 4800-baud serial data bus |
| ISO/IEC 7810 | Identification cards - Physical characteristics |
| GSTQ003 | Power Quality Management System |
| GSTQ001 | Power Quality Instrument |
| IEC 60870-5-101 | Telecontrol equipment and systems - Part 5-101: Transmission Protocols - companion standards especially for basic telecontrol tasks. |
| IEC 60870-5-104 | Telecontrol equipment and systems - Part 5-104: Transmission protocols - Network access for IEC 60870-5-101 using standard transport profiles |
| IEC 62749 | Assessment of power quality - Characteristics of electricity supplied by public networks |
| IEC 61850 series | Communication networks and systems for power utility automation |

### 2.2 For EU countries

| | |
|---|---|
| EN 50160 | Voltage characteristics of electricity supplied by public distribution systems. |

### 2.3 For Brazil

| | |
|---|---|
| PRODIST Módulo 8 | Procedimentos de Distribuição de Energia Elétrica no Sistema Elétrico Nacional – Módulo 8 – Qualidade de Energia Elétrica Rev. 10 |
| Procedimentos de Rede ONS– Submódulo 2.8 | Gerenciamento dos indicadores de desempenho da rede básica e dos barramentos dos transformadores de fronteira, e de seus componentes |

## 2.4 For Italy

| | |
|---|---|
| RSE 12004159 | Specifiche tecnico-funzionali delle apparecchiature di monitoraggio della qualità della tensione per le reti MT. |
| RSEpubb | R. Chiumeo, M. de Nigris, L. Garbero, C. Gandolfi, L. Tenti, E. Carpaneto, “Implementation of a New Method for an Improved Voltage Dips Evaluation by the Italian Power Quality Monitoring System in Presence of VT Saturation Effects”, International Conference on Renewable Energies and Power Quality (ICREPQ’10), Granada (Spain), 23rd to 25th March, 2010. |
| ARG/elt 198/11 | Testo integrato della qualità dei servizi di distribuzione e misura dell’energia elettrica per il periodo di regolazione 2012-2015 |

## 3 APPLICATION FIELDS

The PQ monitoring architecture can be made by central system and distributed instruments.

The PQI (according to GSTQ001) will be installed in the MV or LV distribution grid in order to meausure all the relevant PQ parameters. The relevant PQ parameters are defined in IEC 61000-4-30, IEC 62749 and EN 50160.

The installation will be a substation or another indoor premise in a country where one or more utilities are under Enel control.

The PQMS is the Power Quality Management System (according to GSTQ003), including data acquisition from PQI.

The PQI must include RTU functionalities in order to allow data exchange (according to this GS) with the PQMS.

# 4 EXTENDED PQDIF REQUIREMENTS

PQI and PQMS must exchange the data about the relevant PQ parameters fully compliant with PQDIF (according to IEEE 1159.3), additional requests are present in this chapter.

## 4.1 Main considerations

In the PQDIF, the ID_QT_MAGDURTIME is used for the management of PQ events, by a start timestamp, a duration and a characteristics value (the minimum in the case of dips/interruptions, the maximum in case of swells, etc ...); ID_QT_MAGDURTIME is defined by the tag tagQuantityTypeID in the "data source definition record" for each input channel.

So, tagQuantityTypeID = ID_QT_MAGDURTIME has three data series (see also par.4.5):

a. Timestamp;
b. Event duration;
c. Characteristics value.

In order to identify the PQ parameter (dips, interruption, swell, flicker, thd, etc...), the tag DisturbanceCategoryID is used in the "observation records".

In the following the term "Voltage Li" (i = 1, .., 4) identify the voltage measured by the i-th channel, which corresponds to the i-th phase-to-neutral voltage in the case of 4-wire connection, or to the phase-to-phase voltage in the case of 3-wire connection.

In the implementation of the PQDIF for event management two approach are allowed:

d. To hold a definition of channels independent for the two types of connection (4 wires = phase-to-neutral or 3 wires = phase-to-phase);
e. To use a single definition of channels (corresponding to the type of wiring actually in use).

In both cases the specification of the phase must be properly appropriate: this in view of the fact that voltage events are, however, recognized only for the type of wiring in use.

Although not strictly related to the measurement of the PQ parametrs, the system events, related to the diagnosis of abnormal conditions of the equipment, contribute to the correct interpretation of the measurements made by the device.

Following crucial events must be approached as follow:

f. NO GPS SYNCHRONIZATION;
g. MEMORY FULL;
h. VOLTAGE ANOMALY.

## 4.2 No GPS synchronization

due to a recognition of a no synchronized time base (typically on start before engaging the GPS or absence/interruption connection to GPSR) the PIMS must record an event of "time base of sync", identifying the instant of start and the duration of this condition.

If the condition of no synchronization continues for a long time (for example, for a permanent failure of the GPS receiver), in order to signal this condition, (power quality events can take place in such condition), the analyzer records the event of "NO GPS SYNCHRONIZATION" at the permanence in this condition for 4 hours, and, it reiterated this periodic registration until the restoration of the synchronism of the time base. This avoids recognize the event of "no synchronism" at the end of the abnormal condition (in the case of permanent fault to the GPS receiver could during for days), and then invalidate the elaborations on the origin of voltage dips already carried out. The organization of information "NO GPS SYNCHRONIZATION" in the format IEEE 1159.3 "PQDIF" uses the standard type of greatness ID_QT_MAGDURTIME, defined in the definition tag tagQuantityTypeID in the relative channel in the "data source definition record". At this type of channel ("System Event") are associated three series, which respectively specify the instant of occurrence (time stamp), the event duration and the amplitude (not significant and conventionally equal to 1 (one)). The series of data associated with the events in "'observation records" specify the nature of the

event through the tag tagDisturbanceCategoryID, but the standard does not provide a value applicable to this type of event, so is necessary create one specifically (ID_TIME_NO_SYNC).

### 4.3 Memory full

This event occurs when the internal data storage occupation overcome the 80% of filling, identifying the instant of happening. The organization of information " MEMORY FULL" in the format IEEE 1159.3 "PQDIF" uses the standard type of greatness ID_QT_MAGDURTIME, defined in the definition tag tagQuantityTypeID in the relative channel in the "data source definition record". At this type of channel ("System Event") are associated three series, which respectively specify the instant of occurrence (time stamp), the event duration and the amplitude (not significant and conventionally equal to 2 (two)). The series of data associated with the events in "'observation records" specify the nature of the event through the tag tagDisturbanceCategoryID, but the standard does not provide a value applicable to this type of event, so is necessary create one specifically (ID_MEMORY_FULL).

### 4.4 Voltage anomaly

This event is due the persistence (at least 6 hours) of the voltage measurement in the range ± 10% Vn for one or two channels of the PQI and the voltage measuring over the range ± 30% Vn for the remaining channels (two or one, respectively). Identifying the instant of start and the duration of this condition. After the first recording (after 6 hours of the occurrence of the fault condition), the event is repeated at most once a day, for the duration of the fault condition. Note that the absence of voltage on all channels of the apparatus is not considered an anomaly voltage channels. Furthermore, the management of this event is significant only if the device is configured for three-phase measures, while not provided for single-phase measures. The organization of information "VOLTAGE ANOMALY" in the format IEEE 1159.3 "PQDIF" uses the standard type of greatness ID_QT_MAGDURTIME, defined in the definition tag tagQuantityTypeID in the relative channel in the "data source definition record". At this type of channel ("System Event") are associated three series, which respectively specify the instant of occurrence (time stamp), the event duration and the amplitude (not significant and conventionally equal to 3 (three)). The series of data associated with the events in "'observation records" specify the nature of the event through the tag tagDisturbanceCategoryID, but the standard does not provide a value applicable to this type of event, so is necessary create one specifically (ID_VOLTAGE_ANOMALY).

### 4.5 Logical channels for PQ events

The following input channels are mapped in the “data source definition record”:

a. Voltage events: up to 4 channels (L1, L2, L3, L4) for events of dips, interruptions, swells etc.;
b. Frequency events: 1 channel for under/over frequency events;
c. Imbalance events: 1 channel for over-imbalance events;
d. Flicker events: 3 channels (L1, L2, L3) per over-$P_{lt}$/ $P_{st}$ events;
e. Voltage THD events: 3 channels (L1, L2, L3) for over-Thd events;
f. Current events: 3 channels (L1, L2, L3, L4) for overcurrent events (L4 is needed only in case of neutral current monitoring);
g. Events of digital inputs: 12 channels (one for each digital input) for event of input variation.

The following tags are defined for the channels:

h. tagChannelName that is a character string;
i. tagPhaseID;
j. tagQuantityTypeID = ID_QT_MAGDURTIME;
k. tagQuantityMeasuredID.

Three data series (tagValueTypeID) are available for each channel:

l. ID_SERIES_VALUE_TYPE_TIME: timestamp event;
m. ID_SERIES_VALUE_TYPE_VAL: characteristics value;
n. ID_SERIES_VALUE_TYPE_DURATION: event duration.

With reference to tagPhaseID:

o. for the voltage events on L1, L2 and L3, tagPhaseID = ID_PHASE_AN/BN/CN in the case of 4-wire configuration, and/or tagPhaseID = ID_PHASE_AB/CB/CA in the case of 3-wire configuration;
p. for the voltage events on L4, tagPhaseID = IID_PHASE_RES;
q. for channels of frequency and imbalance events takes the values ID_PHASE_NONE;
r. for channels of L1-L2-L3-L4 current events takes the values of ID_PHASE_AN/BN/CN (L4 is needed only in case of neutral current monitoring);
s. for channels of digital inputs events takes values ID_PHASE_GENERAL_1, …, ID_PHASE_GENERAL_12.

With reference to tagQuantityMeasuredID:

t. for channels of events voltage, frequency, imbalance, Voltage THD events takes the value of ID_QM_VOLTAGE;
u. for the channels of the current events takes the value of ID_QM_CURRENT;
v. for channels of digital events takes the value of ID_QM_STATUS.

Par. 8.1 shows an example of “data source definition record” mapping with the definition of channels for event management.

### 4.6 Data about PQ parameters

Power quality events are stored in “observation record” as instances of the channels previously defined.

The tag tagDisturbanceCategoryID is used to qualify the nature of the event in the type of channel:

a. ID_DISTURB_1159_SHORTDUR_INSTANT_SAG: voltage dips <500ms
b. ID_DISTURB_1159_SHORTDUR_MOMENT_SAG: voltage dips ≥500ms and <3sec
c. ID_DISTURB_1159_SHORTDUR_TEMP_SAG: voltage dips ≥3sec and <60sec
d. ID_DISTURB_1159_LONGDUR_SAG: voltage dips ≥60sec
e. ID_DISTURB_1159_SHORTDUR_MOMENT_INTERRUPT: interruption <3 sec
f. ID_DISTURB_1159_SHORTDUR_TEMP_INTERRUPT: interruption ≥3 sec and <60 sec
g. ID_DISTURB_1159_LONGDUR_INTERRUPT: interruption ≥60 sec
h. ID_DISTURB_1159_SHORTDUR_INSTANT_SWELL: voltage swell <500 ms
i. ID_DISTURB_1159_SHORTDUR_MOMENT_SWELL: voltage swell ≥500 and <3 sec
j. ID_DISTURB_1159_SHORTDUR_TEMP_SWELL: voltage swell ≥3 sec and <60 sec
k. ID_DISTURB_1159_LONGDUR_SWELL: voltage swell ≥60 sec
l. ID_DISTURB_1159_SHORTDUR: rapid voltage changes
m. ID_DISTURB_1159_POWERFREQVARIATION: over- and under-frequency events
n. ID_DISTURB_1159_IMBALANCE: events of over-imbalance
o. ID_DISTURB_1159_VOLTAGEFLUCTUATION: events of over-flicker Plt

The following categories of disturbance are defined (not present in the IEEE 1159.3 standard):

p. ID_INRUSH_CURRENT (in-rush current events): static const GUID ID_INRUSH_CURRENT = { 0xdec995f, 0x2f83, 0x4302, { 0xbc, 0x62, 0x29,0x67, 0x4c, 0x53, 0xb, 0x87 } };
q. ID_LOW_TO_HIGH INPUT (digital input events from logic state off to on): static const GUID ID_LOW_TO_HIGH_INPUT = { 0x1cfe23bd, 0xac40, 0x416b, { 0x84, 0xc9,0x11, 0x64, 0x36, 0x8f, 0xdc, 0x0b } };
r. ID_HIGH_TO_LOW_INPUT (digital input events from logic state on to off): static const GUID ID_HIGH_TO_LOW_INPUT = { 0x89f6b3cf, 0xe2f5, 0x4ac9, { 0xa2, 0x42,0xaf, 0xe5, 0x53, 0x5f, 0xba, 0x4e } };

Par. 8.2 shows an example of recorded event as an instance of a series of type ID_QT_MAGDURTIME.

### 4.7 Logical channels for system events

Is defined the following logical channel "System Event" in the “data source definition record” for the management of system events, with the following tags:

a. tagChannelName: CHAR1: "System Event"
b. tagPhaseID: ID_PHASE_NONE
c. tagQuantityTypeID: ID_QT_MAGDURTIME
d. tagQuantityMeasuredID: ID_QM_STATUS

To each channel is associated three series with the following typologies (tagValueTypeID):

e. ID_SERIES_VALUE_TYPE_TIME: event timestamp
f. ID_SERIES_VALUE_TYPE_VAL: conventionally set equal to 1 for "NO GPS SYNCHRONIZATION", 2 for event "MEMORY FULL", 3 for event "VOLTAGE ANOMALY"
g. ID_SERIES_VALUE_TYPE_DURATION: event duration (seconds).

### 4.8 Data about system events

The system events are stored in the “observation record” as instances of the the channel previously defined. The tag tagDisturbanceCategoryID is used to qualify within the type of the channel concerned the nature of the event, by the following category of event that has been defined specifically, as not present in the standard IEEE 1159.3:

a. ID_TIME_NO_SYNC (no GPS synchronization): static const GUID ID_TIME_NO_SYNC = {0x59402026, 0x7a96, 0x44d3, {0xb1, 0x99, 0x66, 0x9b, 0x51, 0xa5, 0xd0, 0xf4} };
b. ID_MEMORY_FULL (memory full): static const GUID ID_MEMORY_FULL = {0x08a90717, 0x6263, 0x4119, {0xae, 0xb6, 0x1e, 0x60, 0x2d, 0x17, 0xc8, 0x13} };
c. ID_VOLTAGE_ANOMALY (voltage anomaly): static const GUID ID_VOLTAGE_ANOMALY = {0x79678710, 0x b45e, 0x4936, {0x86, 0x6e, 0x9f, 0x5a, 0xb5, 0xd0, 0x47, 0x27} }.

Par. 8.3 shows an example of recorded event as an instance of a series of type ID_QT_MAGDURTIME.

### 4.9 Voltage dip monitoring according to Italian Regulation

The voltage dip validation described in [1] may give three attribute for each voltage dip:

a. Good;
b. Fittizio;
c. Not Defined.

The management of this attribute is not present in IEEE 1159.3 and it is defined in this GS, by creating a dummy dip immediately after the real one just in cases b and c.

The data series of the dummy dip are:

d. TIMESTAMP: istante di riconoscimento [1];
e. DURATION: “Fittizio” = -1; “Not Defined” = -2;
f. MAGNITUDE: “Fittizio” = -1; “Not Defined” = -2;
g. PHASE: L1.

# 5 REST SERVER REQUIREMENTS

According to GSTQ001, the PQ instrument may have an inbuilt REST server; this chapter defines the data exchange characteristics of such server.

The server must listen both at its IPv4 and its IPv6 address, a specific TCP port for HTTP transport and another one for HTTPs. Either HTTP or HTTPs can be disabled by configuration. Due to cybersecurity reasons HTTP will be disabled by default.

Authentication is optional for HTTP and mandatory for HTTPs. Any method based on username+password is allowed, such as:

- Basic or digest HTTP/HTTPs authentication.
- String variables “username” and “password” are added in plain-text format to any input JSON dictionary.

The server shall publish a set of URLs and methods which are described in this chapter.

## 5.1 URLs

The path of these URLs may be absolute or relative. For this latter case the manufacturer shall define the string to be added within each URL request, it will be unique (e.g. “*/cgi-bin/rest/*”) and it will be added to every URL.

Next follows several valid examples:

- Absolute:
  - http://192.168.150.123/tools/recycle
  - http://192.168.150.123/data/periodic
  - …
- Relative:
  - http://10.234.56.78/cgi-bin/rest/tools/reboot
  - http://10.234.56.78/cgi-bin/rest/data/waveform
  - https://172.29.4.56:44443/apirest/config/upload
  - https://172.29.4.56:44443/apirest/tools/reboot
  - …

Next table shows all the functionalities (each element of the URL column needs to be prefixed al least by the “*http://server:port/”* or “*https://server:port/”* strings).

**Table 1 – REST server URLS functionalities**

| URL | method | description | input | output |
|---|---|---|---|---|
| tools/reboot | GET | cold restart | | $output_simple |
| tools/recycle | GET | hard restart | | $output_simple |
| config/upload | POST/PUT | JSON encoded configuration file | $config_upload_json | $output_simple |
| config/reload | GET | | | $output_simple |
| files/list | POST | folder name in JSON format | $input_files_list | $output_files_list |
| files/download | POST | full path name in JSON format | $input_files_download | binary file |
| files/delete | POST | folder or full path name in JSON format | $input_files_delete | $output_simple |
| data/periodic | POST | recorded periodic values in JSON or CSV format | $input_data_periodic | $output_data_periodic_json |
| | | | | $output_data_periodic_csv |
| data/events/list | POST | events list with associated data in JSON format | $input_data_events | $output_data_events |
| data/waveform | POST | waveform datapoints in CSV format | $input_data_waveform | $output_data_waveform_csv |
| | | waveform datapoints in JSON format | | $output_data_waveform_json |
| | | waveform datapoints in ZIP+COMTRADE format | | $output_data_waveform_zipcomtrade |
| data/delete | POST | delete periodic, event or waveform data | $input_data_delete | $output_simple |
| data/online | POST | online values in JSON or CSV format | $input_data_online | $output_data_online_json |
| | | | | $output_data_online_csv |

a. TOOLS/REBOOT: cold restart of the device (status is saved and devices are unmounted prior to rebooting).
b. TOOLS/RECYCLE: a hard restart (power recycling) is performed without saving status nor unmounting devices.
c. CONFIG/UPLOAD: a complete or partial configuration is uploaded to the PQI in JSON format.
d. CONFIG/RELOAD: in case of trouble the existent configuration is reloaded.
e. FILES/LIST: this is a replacement for the inbuilt SFTP server functionality, listing any folder content.
f. FILES/DOWNLOAD: a single file may be downloaded.
g. FILES/DELETE: a single file may be erased. For several files a complete path or filter may be used.
h. DATA/PERIODIC: this is the real strength of the REST server, since it provides a fully distributed database functionality. A specific time frame and set of periodic variables are requested in JSON format. The output is made of time series vectors in JSON format or a single table in CSV.
i. DATA/EVENTS/LIST: it gives a list of events for a certain time frame. If any of these events has an associated waveform, its id is also returned. Any event and waveform has a unique id, either numeric or alphanumeric.
j. DATA/WAVEFORM: it returns the full time series data of any waveform given by a single id.
k. DATA/DELETE: recorded data between two timestamps may be deleted. This function shall be used for keeping the internal database within certain size limits. Not mandatory although recommended.
l. DATA/ONLINE: request of online measurements. Timestamp is included in the result. Not mandatory although recommended.

## 5.2 Variables encoding

An extensive set of variables is defined. Any PQI shall include this complete list or a subset. This list may be upgraded in the future according to the state-of-the-art.

The whole set of codes and variables are enumerated and described in par. 8.4.

API version standard (“1.0” for GSTQ002 edition 1 and “2.0” for edition 2) can be added within the JSON variable “api” (e.g. “api”: “2.0”). If not present edition 1 is assumed.

### 5.3 $config_upload_json

It consists of a JSON dictionary with all or a few configuration parameters. Thus partial reconfiguration may be accomplished without resetting the PQI.

Next table shows some generic parameters.

**Table 2 – REST server $config_upload_json**

| name | values | type | example |
|---|---|---|---|
| wiring | 3-wire, 4-wire | text | 3-wire |
| nominal voltage | | number | 230 |
| nominal current | | number | 300 |
| voltage ratio | | number | 100 |
| current ratio | | number | 200 |
| | | | |
| ipv4 address | | text | 192.168.1.10 |
| netmask4 | | | 255.255.255.0 |
| dns1 | | | 8.8.8.8 |
| dns2 | | | 2a00:1410:4003:807::2003 |
| dhcp | true or false | | false |
| | | | |
| ipv6 address | | | 2a00:1450:4003:807::2003 |
| prefixlen6 | | | 16 |
| dhcpv6 | true or false | | false |
| rtsol6 | true or false | | false |
| | | | |

```
{
        "wiring":           "3-wire"                ,
        "nominal voltage":  230                     ,
        "nominal current":  300                     ,
        "voltage ratio":    100                     ,
        "current ratio":    200                     ,

        "ipv4 address":     "192.168.1.10"          ,
        "netmask4":         "255.255.255.0"         ,
        "dns1":             "8.8.8.8"               ,
        "dns2":             "2a00:1410:4003:807::2003" ,
        "dhcp":             "false"                 ,

        "ipv6 address":     "2a00:1450:4003:807::2003" ,
        "prefixlen6":       "16"                    ,
        "dhcpv6":           "false"                 ,
        "rtsol6":           "false"
}
```

Any configuration parameter that may be uploaded to the device by the PIMS or by SFTP, shall also be made possible by the REST server. Therefore the manufacturer shall describe how to parse any configuration parameter within the JSON request (i.e. a full list of JSON variables and their values).

### 5.4 $output_simple

It gives basic success or error information just after a POST, GET or PUT request.

Next table shows the parameters.

**Table 3 – REST server $output_simple**

| name | values | type | example |
|---|---|---|---|
| ok | true, false | boolean | false |
| error | | text | not found |

```
{
        "ok":                   "false"         ,
        "error":                "not found"
}
```

### 5.5 $input_file_list

Either a path or a path and a filter may be requested for listing files from PQI's internal storage.

Next table shows the parameters.

**Table 4 – REST server $input_file_list**

| name | values | type | example |
|---|---|---|---|
| folder | | text | rec/waveforms |
| filter | | text | * |

```
{
        "folder":               "rec/waveforms"     ,
        "filter":               "*"
}
```

### 5.6 $output_file_list

A JSON vector is returned. Each vector component consists of a tuple of both filename and size in bytes. This information allows trivial remote file synchronization between the PQI and a central server.

Next table shows the parameters.

**Table 5 – REST server $output_file_list**

| name | values | type | example |
|---|---|---|---|
| list | [ [ name, size] ] | [ [text, number] ] | [ [ "filename1",  212 ], [ "filename2", 10234 ], …, [ "filename10", 523 ] ] |

```
{
        "list":                 [ [ "filename1",  212 ], [ "filename2", 10234 ], …, [ "filename10", 523 ] ]
}
```

### 5.7 $input_files_download

Complete path and filename in JSON format are requested.

Next table shows the parameters.

**Table 6 – REST server $input_files_download**

| name | values | type | example |
|---|---|---|---|
| fullpathname | | text | rec/waveforms/reg01.pqd |

```
{
        "fullpathname":         "rec/waveforms/reg01.pqd"
}
```

### 5.8 $input_file_delete

A single file or a set of files given by a filter may be erased.

Next table shows the parameters.

**Table 7 – REST server $input_files_delete**

| name | values | type | example |
|---|---|---|---|
| path | | text | rec/waveforms |
| filter | | text | * |

```
{
        "path":                 "rec/waveforms"     ,
        "filter":               "*"
}
```

### 5.9 $input_data_periodic

Input parameters are the time frame for data extraction and the requested variables. Time must be written in ISO 8601 format.

Next table shows the parameters.

**Table 8 – REST server $input_data_periodic**

| name | values | type | example |
|---|---|---|---|
| start | timestamp | timestamp (ISO 8601 format) | "2015-11-16T22:20:00Z" |
| end | timestamp | timestamp (ISO 8601 format) | "2015-11-19T10:20:00Z" |
| vars | [ [ name ] ] | [ [ text ] ] | [ "v_AN_min", "v_BN_avg", …, "q_AN_min" ] |
| | | | [ "*" ] |
| format | csv or json | text | "csv" |
| | | | "json" |

```
{
    "start":    "2015-11-16T22:20:00Z"                    ,
    "end":      "2015-11-19T10:20:00Z"                    ,
    "vars":     [ "v_AN_min", "v_BN_avg", …, "q_AN_min" ] ,
    "format":   "csv"
}
```

```
{
    "start":    "2015-11-16T22:20:00Z"                    ,
    "end":      "2015-11-19T10:20:00Z"                    ,
    "vars":     [ "v_AN_min", "v_BN_avg", …, "q_AN_min" ] ,
    "format":   "json"
}
```

```
{
    "start":    "2015-11-16T22:20:00Z"                    ,
    "end":      "2015-11-19T10:20:00Z"                    ,
    "vars":     [ "*" ]                                   ,
    "format":   "json"
}
```

## 5.10 $output_data_periodic_json

A JSON dictionary with single vectors for time and requested variables is returned. Start and end of each time interval are enumerated in separated vectors (“timestamps1” and “timestamps2”). Requested variables are evaluated for each time interval.

Next example shows a special case for 10-minute intervals.

**Table 9 – REST server $input_data_periodic_json**

| name | values | type | example |
|---|---|---|---|
| timestamps1 | [ timestamps ] | [ timestamp (ISO 8601 format) ] | [ "2015-11-16T22:20:00Z", "2015-11-16T22:30:00Z", …, "2015-11-16T23:50:00Z" ] |
| timestamps2 | [ timestamps ] | [ timestamp (ISO 8601 format) ] | [ "2015-11-16T22:30:00Z", "2015-11-16T22:40:00Z", …, "2015-11-17T00:00:00Z" ] |
| "var1" | [ values ] | [ numeric ] | [ 231.5, 232.7, …, 235.3 ] |
| "var2" | [ values ] | [ numeric ] | [ 5.12, 5.20, …, 5.68 ] |
| … | … | … | … |

```
{
    "timestamps1":    [ "2015-11-16T22:20:00Z", "2015-11-16T22:30:00Z", …, "2015-11-16T23:50:00Z" ] ,
    "timestamps2":    [ "2015-11-16T22:30:00Z", "2015-11-16T22:40:00Z", …, "2015-11-17T00:00:00Z" ] ,
    "v_AN_avg":       [ 231.5, 232.7, …, 235.3 ] ,
    …                … ,
    "v_CN_THD_avg":   [ 5.12, 5.20, …, 5.68 ]
}
```

### 5.11 $output_data_periodic_csv

The same information is expressed in tabular form (CSV flat output).

Next table shows the parameters.

**Table 10 – REST server $output_data_periodic_csv**

| t1 | t2 | v_AN_avg | … | v_CN_THD_avg |
|---|---|---|---|---|
| 2015-11-16T22:20:00Z | 2015-11-16T22:30:00Z | 231.5 | … | 5.12 |
| 2015-11-16T22:30:00Z | 2015-11-16T22:40:00Z | 232.7 | … | 5.20 |
| … | | … | … | … |
| 2015-11-16T23:50:00Z | 2015-11-17T00:00:00Z | 235.3 | … | 5.68 |

### 5.12 $input_data_events

Simple JSON dictionary with start and end time request.

Next table shows the parameters.

**Table 11 – REST server $input_data_events**

| name | values | type | example |
|---|---|---|---|
| start | timestamp | timestamp (ISO 8601 format) | "2015-11-16T22:20:00Z" |
| end | timestamp | timestamp (ISO 8601 format) | "2015-11-19T10:20:00Z" |

```
{
    "start":        "2015-11-16T22:20:00Z"   ,
    "end":          "2015-11-19T10:20:00Z"
}
```

### 5.13 $output_data_events

The output is a JSON vector made of single dictionaries. Each dictionary describes an event by its unique id and additional numeric of alphanumeric information.

Next table shows the parameters.

**Table 12 – REST server $output_data_events1**

| name | values | type | example |
|---|---|---|---|
| events | [ { } ] | [ json dictionary ] | see below |

```
[
        {
                "event_id":         "93815260fcfa1d677847b4026cbc36c0" ,
                "start":            "2015-11-15T10:23:45.015010Z" ,
                "end":              "2015-11-15T10:23:45.126730Z" ,
                "waveform_id":      "34e6431b6430362f8ff277c0c5b3456d" ,
                "type":             "dip" ,
                "magnitude":        75.1 ,
                "phases":           [ "AN", "BN", "AB" ] ,
                "info":             [ "RSE good", "HV origin" ]
        } ,
        {
                "event_id":         "5a413cbd4bedfca97045d7814202fafd" ,
                "start":            "2015-11-16T09:11:35.023020Z" ,
                "end":              "2015-11-16T09:11:35.030100Z" ,
                "waveform_id":      "" ,
                "type":             "swell" ,
                "magnitude":        115.2 ,
                "phases":           [ "CA" ] ,
                "info":             [ ]
        }
]
```


Type of events, affected phases and extra information are encoded according to the next tables.

RSE good/bad/unknown means that the algorithm in [1] gives good, bad or not definitive results. According to par. 4.9:

a. Good = RSE good;
b. Fittizio = RSE bad;
c. Not Defined = RSE unknown.

Next table shows the parameters.

**Table 13 – REST server $output_data_events2**

| type |
|---|
| dip |
| swell |
| overcurrent |
| undercurrent |
| overfrequency |
| underfrequency |
| over_thd |
| over_pst |
| over_unbalance |
| … |

| phases |
|---|
| AN |
| BN |
| CN |
| AB |
| BC |
| CA |
| AG |
| BG |
| CG |
| NG |

| info |
|---|
| RSE good |
| RSE bad |
| RSE unknown |
| HV origin |
| MV origin |
| EHV origin |
| LV origin |
| … |
| |
| |

### 5.14 $input_data_waveform

It consists of a very simple JSON dictionary with a unique waveform id and the requested output format.

Next table shows the parameters.

**Table 14 – REST server $input_data_waveform**

| name | values | type | example |
|---|---|---|---|
| waveform_id | unique id | text | "93815260fcfa1d677847b4026cbc36c0" |
| format | csv, json or zipcomtrade | text | "csv" |

```
{
        "waveform_id":          "93815260fcfa1d677847b4026cbc36c0" ,
        "format":               "csv"
}
```

```
{
        "waveform_id":          "93815260fcfa1d677847b4026cbc36c0" ,
        "format":               "json"
}
```

```
{
        "waveform_id":          "93815260fcfa1d677847b4026cbc36c0" ,
        "format":               "zipcomtrade"
}
```

### 5.15 $output_data_waveform_json

Similar to the “$output_data_periodic_json” format but with a single time vector.

Next table shows the parameters.

**Table 15 – REST server $output_data_waveform_json**

| name | values | type | example |
|---|---|---|---|
| timestamps | [ timestamps ] | [ timestamp (ISO 8601 format) ] | [ "2015-11-16T22:20:00.01Z", "2015-11-16T22:20:00.02Z", …, "2015-11-16T22:20:00.88Z" ] |
| "var1" | [ values ] | [ numeric ] | [ 231.5, 232.7, …, 235.3 ] |
| "var2" | [ values ] | [ numeric ] | [ 230.5, 233.1, …, 234.1 ] |
| … | … | … | … |

```
{
        "timestamps":   [ "2015-11-16T22:20:00.01Z", "2015-11-16T22:20:00.02Z", …, "2015-11-16T22:20:00.88Z" ] ,
        "v_AN":         [ 231.5, 232.7, …, 235.3 ] ,
        "v_CA":         [ 230.5, 233.1, …, 234.1 ],
        …               …
}
```

### 5.16 $output_data_waveform_csv

Similar to the “$output_data_periodic_csv” format but with a single time vector.

Next table shows the parameters.

**Table 16 – REST server $output_data_waveform_csv**

| timestamps | v_AN | v_CA | … |
|---|---|---|---|
| 2015-11-16T22:20:00.01Z | 231.5 | 230.5 | … |
| 2015-11-16T22:20:00.02Z | 232.7 | 233.1 | … |
| … | … | … | … |
| 2015-11-16T22:20:00.88Z | 235.3 | 234.1 | … |

### 5.17 $output_data_zipcomtrade

It consists of a zip-file containing standard COMTRADE files (CFG, DAT and optional HDR). COMTRADE DAT file may be encoded in binary or plain text format.

### 5.18 $input_data_delete

Recorded data in PQI's internal database is deleted. Time frames and type of data are input parameters.

Next table shows the parameters.

**Table 17 – REST server $input_data_delete**

| name | values | type | example |
|---|---|---|---|
| start | timestamp | timestamp (ISO 8601 format) | "2015-11-16T22:20:00Z" |
| end | timestamp | timestamp (ISO 8601 format) | "2015-11-19T10:20:00Z" |
| type | | text | "periodic" |
| | | | "event" |
| | | | "waveform" |
| | | | "any" |

```
{
        "start":        "2015-11-16T22:20:00Z",
        "end":          "2015-11-19T10:20:00Z",
        "type":         "periodic"
}
```

```
{
        "start":        "2015-11-16T22:20:00Z",
        "end":          "2015-11-19T10:20:00Z",
        "type":         "event"
}
```

```
{
        "start":        "2015-11-16T22:20:00Z",
        "end":          "2015-11-19T10:20:00Z",
        "type":         "waveform"
}
```

```
{
        "start":        "2015-11-16T22:20:00Z",
        "end":          "2015-11-19T10:20:00Z",
        "type":         "any"
}
```

### 5.19 $input_data_online

Input parameters are the requested variables:

**Table 18 – REST server $input_data_online**

| name | values | type | example |
|---|---|---|---|
| vars | [ [ name ] ] | [ [ text ] ] | [ "v_AN_min", "v_BN_avg", …, "q_AN_min" ] |
| | | | [ "*" ] |
| format | csv or json | text | "csv" |
| | | | "json" |

```
{
        "vars":         [ "v_AN_min", "v_BN_avg", …, "q_AN_min" ]    ,
        "format":       "csv"
}
```

```
{
        "vars":         [ "v_AN_min", "v_BN_avg", …, "q_AN_min" ]    ,
        "format":       "json"
}
```

```
{
        "vars":         [ "*" ]                                      ,
        "format":       "json"
}
```

### 5.20 $output_data_online_json

A JSON dictionary with a timestamp and the requested variables is returned:

**Table 19 – REST server $output_data_online_json**

| name | values | type | example |
|---|---|---|---|
| timestamp | timestamp | timestamp (ISO 8601 format) | "2015-11-16T22:20:00Z" |
| "var1" | value | numeric | 232.2 |
| "var2" | value | numeric | 12.5 |
| … | … | … | … |

```
{
        "timestamp":    "2015-11-16T22:20:00Z" ,
        "v_AN_avg":     232.2 ,
        …               … ,
        "v_CN_THD_avg": 12.5
}
```

### 5.21 $output_data_online_csv

The same information is expressed in tabular form (CSV flat output).

**Table 20 – REST server $output_data_online_csv**

| t | v_AN_avg | … | v_CN_THD_avg |
|---|---|---|---|
| 2015-11-16T22:20:00Z | 231.5 | … | 5.12 |

# 6 IEC 61850 CAPABILITIES

The PQI might include basic functionalities according to IEC 61850. These features consist of basic online measurements, notification of disturbance recordings and FTP repository for fault analysis.

## 6.1 Online measurements

One or several logical modes from to the MMXU class shall include the following measurements (variables definition according to annex 10.4):

- Total real power → p_TOTAL
- Total reactive power → q_TOTAL
- Total apparent power → s_TOTAL
- Power system frequency → freq
- Phase to phase voltages → v_AB, v_BC, v_CA
- Phase to ground voltages → v_AN, v_BN, v_CN
- Phase currents → a_AN, a_BN, a_CN
- Phase active power → p_AN, p_BN, p_CN
- Phase reactive power → q_AN, q_BN, q_CN
- Phase apparent power → s_AN, s_BN, s_CN

## 6.2 Notification of new disturbance recordings

A logical node from the RDRE class shall indicate the existence of a new fault recording and its alphanumeric id.

## 6.3 FTP repository

Fault recordings shall supplied by an internal FTP server in COMTRADE format, either in a zip file or in a separate folder with the same alphanumeric id.

# 7 MISCELLANEOUS

This chapter include further requirements, recommendations and additional information.

## 7.1 Amendement

Because of the earlier stage of some international standards used in this GS, Enel may derogate some prescriptions.

Possible derogations must be requested by the provider just during the procurement process.

# 8 ANNEXES

This chapter include data source definition examples.

## 8.1 Annex A: "data source definition record" examples for PQ events

```
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 5 - ID_PHASE_AB
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 24 ]
| | | value: 'Voltage Event Phase A-B'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_QU_VOLTS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31ae5-b451-11d1-ae170060} - ID_QC_RMS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Rms'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
```

```
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 6 - ID_PHASE_BC
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 24 ]
| | | value: 'Voltage Event Phase B-C'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_QU_VOLTS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31ae5-b451-11d1-ae170060} - ID_QC_RMS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
```

```
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Rms'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 7 - ID_PHASE_CA
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 24 ]
| | | value: 'Voltage Event Phase C-A'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
```

```
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_QU_VOLTS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31ae5-b451-11d1-ae170060} - ID_QC_RMS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Rms'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 8 - ID_PHASE_RES
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 23 ]
| | | value: 'Voltage Event Phase L4'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
```

```
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_QU_VOLTS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31ae5-b451-11d1-ae170060} - ID_QC_RMS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Rms'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
```

```
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 0 - ID_PHASE_NONE
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 16 ]
| | | value: 'Frequency Event'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 15 - ID_QU_HERTZ
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {07ef68af-9ff5-11d2-b30b0060} - ID_QC_FREQUENCY
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 20 ]
| | | | | value: 'Magnitude Frequency'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 50.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
```

```
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 0 - ID_PHASE_NONE
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 16 ]
| | | value: 'Unbalance Event'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 19 - ID_QU_PERCENT
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {07ef68af-9ff5-11d2-b30b0060} - ID_QC_FREQUENCY
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 20 ]
| | | | | value: 'Magnitude Unbalance'
```

```
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 5 - ID_PHASE_AB
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 20 ]
| | | value: 'Plt Event Phase A-B'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
```

```
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 20 - ID_QU_PERUNIT
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {515bf321-71ca-11d4-a4b34445} - ID_QC_FLKR_PLT
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Plt'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 6 - ID_PHASE_BC
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 20 ]
| | | value: 'Plt Event Phase B-C'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
```

```
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 20 - ID_QU_PERUNIT
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {515bf321-71ca-11d4-a4b34445} - ID_QC_FLKR_PLT
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Plt'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
```

```
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 7 - ID_PHASE_CA
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 20 ]
| | | value: 'Plt Event Phase C-A'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 20 - ID_QU_PERUNIT
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {515bf321-71ca-11d4-a4b34445} - ID_QC_FLKR_PLT
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Plt'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
```

```
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 5 - ID_PHASE_AB
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 21 ]
| | | value: 'ThdV Event Phase A-B'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 19 - ID_QU_PERCENT
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31aec-b451-11d1-ae170060} - ID_QC_TOTAL_THD
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 15 ]
| | | | | value: 'Magnitude ThdV'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
```

```
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 6 - ID_PHASE_BC
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 21 ]
| | | value: 'ThdV Event Phase B-C'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
```

```
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 19 - ID_QU_PERCENT
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31aec-b451-11d1-ae170060} - ID_QC_TOTAL_THD
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 15 ]
| | | | | value: 'Magnitude ThdV'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 7 - ID_PHASE_CA
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 21 ]
| | | value: 'ThdV Event Phase C-A'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 1 - ID_QM_VOLTAGE
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
```

```
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 19 - ID_QU_PERCENT
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31aec-b451-11d1-ae170060} - ID_QC_TOTAL_THD
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 15 ]
| | | | | value: 'Magnitude ThdV'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 1 - ID_PHASE_AN
```

```
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 22 ]
| | | value: 'Current Event Phase A'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 2 - ID_QM_CURRENT
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 7 - ID_QU_AMPS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31ae5-b451-11d1-ae170060} - ID_QC_RMS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Rms'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
```

```
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 2 - ID_PHASE_BN
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 22 ]
| | | value: 'Current Event Phase B'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 2 - ID_QM_CURRENT
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 7 - ID_QU_AMPS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31ae5-b451-11d1-ae170060} - ID_QC_RMS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Rms'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
```

```
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 3 - ID_PHASE_CN
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 22 ]
| | | value: 'Current Event Phase C'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 2 - ID_QM_CURRENT
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
```

```
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 7 - ID_QU_AMPS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31ae5-b451-11d1-ae170060} - ID_QC_RMS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 14 ]
| | | | | value: 'Magnitude Rms'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 19 - ID_PHASE_GENERAL_1
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 1'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
```

```
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 20 - ID_PHASE_GENERAL_2
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
```

```
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 2'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
```

```
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 21 - ID_PHASE_GENERAL_3
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 3'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
```

```
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 22 - ID_PHASE_GENERAL_4
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 4'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
```

```
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 23 - ID_PHASE_GENERAL_5
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 5'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
```

```
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 24 - ID_PHASE_GENERAL_6
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
```

```
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 6'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
```

```
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 25 - ID_PHASE_GENERAL_7
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 7'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
```

```
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 26 - ID_PHASE_GENERAL_8
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 8'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
```

```
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 27 - ID_PHASE_GENERAL_9
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 25 ]
| | | value: 'Digital Input Event N. 9'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
```

```
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 28 - ID_PHASE_GENERAL_10
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 26 ]
| | | value: 'Digital Input Event N. 10'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
```

```
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
```

```
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 29 - ID_PHASE_GENERAL_11
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 26 ]
| | | value: 'Digital Input Event N. 11'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
```

```
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 30 - ID_PHASE_GENERAL_12
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 26 ]
| | | value: 'Digital Input Event N. 12'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
```

```
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)

    | | +-(End of collection)
```

## 8.2 Annex B: “observation record” examples

```
-Collection -- tag: tagRecObservation (level 0)
| The checksum for this record is correct.
+-Vector -- tag: tagObservationName (type: CHAR1) [ 18 ]
| value: 'Swell Observation'
+-Scalar -- tag: tagTimeCreate (type: TIMESTAMPPQDIF)
| value: 3/15/2013 15:43:3.000000000
+-Scalar -- tag: tagTimeStart (type: TIMESTAMPPQDIF)
| value: 3/15/2013 13:3:27.190000000
+-Scalar -- tag: tagTriggerMethodID (type: UNS_INTEGER4)
| value: 1 - ID_TRIGGER_METH_CHANNEL
+-Scalar -- tag: tagTimeTriggered (type: TIMESTAMPPQDIF)
| value: 3/15/2013 13:3:27.190000000
+-Vector -- tag: tagChannelTriggerIdx (type: UNS_INTEGER4) [ 1 ]
| values: 41
+-Scalar -- tag: tagObservationSerial (type: UNS_INTEGER4)
| value: 0
+-Scalar -- tag: tagDisturbanceCategoryID (type: GUID)
| value: {dd56ef73-7edd-11d2-b30a0060} - ID_DISTURB_1159_SHORTDUR_TEMP_SWELL
+-Collection -- tag: tagChannelInstances (level 1)
| +-Collection -- tag: tagOneChannelInst (level 2)
| | +-Scalar -- tag: tagChannelDefnIdx (type: UNS_INTEGER4)
| | | value: 41
| | +-Scalar -- tag: tagCharactMagnitude (type: REAL8)
| | | value: 263.146439
| | +-Collection -- tag: tagSeriesInstances (level 3)
| | | +-Collection -- tag: tagOneSeriesInstance (level 4)
| | | | +-Scalar -- tag: tagSeriesBaseQuantity (type: REAL8)
```

```
| | | | | value: 100.000000
| | | | +-Scalar -- tag: tagSeriesScale (type: REAL8)
| | | | | value: 1.000000
| | | | +-Scalar -- tag: tagSeriesOffset (type: REAL8)
| | | | | value: 0.000000
| | | | +-Vector -- tag: tagSeriesValues (type: TIMESTAMPPQDIF) [ 1 ]
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesInstance (level 4)
| | | | +-Scalar -- tag: tagSeriesBaseQuantity (type: REAL8)
| | | | | value: 230.000000
| | | | +-Scalar -- tag: tagSeriesScale (type: REAL8)
| | | | | value: 1.000000
| | | | +-Scalar -- tag: tagSeriesOffset (type: REAL8)
| | | | | value: 0.000000
| | | | +-Vector -- tag: tagSeriesValues (type: REAL8) [ 1 ]
| | | | | values: 263.146439
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesInstance (level 4)
| | | | +-Scalar -- tag: tagSeriesBaseQuantity (type: REAL8)
| | | | | value: 100.000000
| | | | +-Scalar -- tag: tagSeriesScale (type: REAL8)
| | | | | value: 1.000000
| | | | +-Scalar -- tag: tagSeriesOffset (type: REAL8)
| | | | | value: 0.000000
| | | | +-Vector -- tag: tagSeriesValues (type: REAL8) [ 1 ]
| | | | | values: 9.940000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
| +-Scalar -- tag: tagCharactDuration (type: REAL8)
| | value: 9.940000
| +-(End of collection)
+-(End of collection)
+---- Record information
| Size on disk: 333
| The record was compressed; size after decompression: 964
    +-(End of record)
```

### 8.3 Annex C: “data source definition record” examples for system events

```
| +-Collection -- tag: tagOneChannelDefn (level 2)
| +-Collection -- tag: tagOneChannelDefn (level 2)
| | +-Scalar -- tag: tagPhaseID (type: UNS_INTEGER4)
| | | value: 30 - ID_PHASE_NONE
| | +-Vector -- tag: tagOtherChannelIdentifier (type: CHAR1) [ 1 ]
| | | value: ''
| | +-Scalar -- tag: tagQuantityTypeID (type: GUID)
| | | value: {67f6af8d-f753-11cf-9d890080} - ID_QT_MAGDURTIME
| | +-Vector -- tag: tagGroupName (type: CHAR1) [ 5 ]
| | | value: 'None'
| | +-Vector -- tag: tagChannelName (type: CHAR1) [ 26 ]
| | | value: System Event'
| | +-Scalar -- tag: tagPrimarySeriesIdx (type: UNS_INTEGER4)
| | | value: 0
| | +-Scalar -- tag: tagQuantityMeasuredID (type: UNS_INTEGER4)
| | | value: 17 - ID_QM_STATUS
| | +-Collection -- tag: tagSeriesDefns (level 3)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
```

```
| | | | | value: {c690e862-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_TIME
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 5 ]
| | | | | value: 'Time'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 0 - ID_QU_NONE
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {b82b5c83-55c7-11d5-a4b34445} - ID_QC_STATUS
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {67f6af97-f753-11cf-9d890080} - ID_SERIES_VALUE_TYPE_VAL
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 12 ]
| | | | | value: 'Logic State'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 1.000000
| | | | +-(End of collection)
| | | +-Collection -- tag: tagOneSeriesDefn (level 4)
| | | | +-Scalar -- tag: tagQuantityUnitsID (type: UNS_INTEGER4)
| | | | | value: 2 - ID_QU_SECONDS
| | | | +-Scalar -- tag: tagQuantityCharacteristicID (type: GUID)
| | | | | value: {a6b31adf-b451-11d1-ae170060} - ID_QC_NONE
| | | | +-Scalar -- tag: tagValueTypeID (type: GUID)
| | | | | value: {c690e863-f755-11cf-9d890080} - ID_SERIES_VALUE_TYPE_DURATION
| | | | +-Vector -- tag: tagValueTypeName (type: CHAR1) [ 9 ]
| | | | | value: 'Duration'
| | | | +-Scalar -- tag: tagStorageMethodID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_SERIES_METHOD_VALUES
| | | | +-Scalar -- tag: tagHintGreekPrefixID (type: UNS_INTEGER4)
| | | | | value: 6 - ID_GREEK_NONE
| | | | +-Scalar -- tag: tagHintPreferredUnitsID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_PREFER_ENG
| | | | +-Scalar -- tag: tagHintDefaultDisplayID (type: UNS_INTEGER4)
| | | | | value: 1 - ID_DEFAULT_MAG
| | | | +-Scalar -- tag: tagSeriesNominalQuantity (type: REAL8)
| | | | | value: 0.000000
| | | | +-(End of collection)
| | | +-(End of collection)
| | +-(End of collection)
```

### 8.4 Annex D: List of variables

Table 18 summarizes the variables that the PQI and PQMS must be able to exchange.

According to IEC 61000-4-30, the 10/12 cycle values are aggregated over 3 additional intervals:

- 150/180 cycle interval (150 cycles for 50 Hz nominal or 180 cycles for 60 Hz nominal);

- 10 min interval;
- 2 hour interval for $P_{lt}$ flicker.

A different aggregation interval might be necessary for measuring compliance with some national or international standards.

Only when the device is able to measure DC and interharmonics, their associated variables will be requested. In case of harmonics measurement above order 50, add and name variables accordingly.

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AN_min | RMS voltage, between phase A and NEUTRAL, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_min | RMS voltage, between phase B and NEUTRAL, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_min | RMS voltage, between phase C and NEUTRAL, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_min | RMS voltage, between phase A and B, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_min | RMS voltage, between phase B and C, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_min | RMS voltage, between phase C and A, minimum of 10/12-cycle intervals | V | 600 |
| a_AN_min | RMS current, phase A, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_min | RMS current, phase B, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_min | RMS current, phase C, minimum of 10/12-cycle intervals | A | 600 |
| p_AN_min | Active power, phase A, minimum of 10/12-cycle intervals | W | 600 |
| p_BN_min | Active power, phase B, minimum of 10/12-cycle intervals | W | 600 |
| p_CN_min | Active power, phase C, minimum of 10/12-cycle intervals | W | 600 |
| p_TOTAL_min | Active power, total, minimum of 10/12-cycle intervals | W | 600 |
| q_AN_min | Reactive power, phase A, minimum of 10/12-cycle intervals | VAr | 600 |
| q_BN_min | Reactive power, phase B, minimum of 10/12-cycle intervals | VAr | 600 |
| q_CN_min | Reactive power, phase C, minimum of 10/12-cycle intervals | VAr | 600 |
| q_TOTAL_min | Reactive power, total, minimum of 10/12-cycle intervals | VAr | 600 |
| v_AN_harm_0_min | RMS voltage, between phase A and N, harmonic component DC, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_1_min | RMS voltage, between phase A and N, harmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_2_min | RMS voltage, between phase A and N, harmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_3_min | RMS voltage, between phase A and N, harmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_4_min | RMS voltage, between phase A and N, harmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_5_min | RMS voltage, between phase A and N, harmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_6_min | RMS voltage, between phase A and N, harmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_7_min | RMS voltage, between phase A and N, harmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_8_min | RMS voltage, between phase A and N, harmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_9_min | RMS voltage, between phase A and N, harmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_10_min | RMS voltage, between phase A and N, harmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_11_min | RMS voltage, between phase A and N, harmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_12_min | RMS voltage, between phase A and N, harmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_13_min | RMS voltage, between phase A and N, harmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_14_min | RMS voltage, between phase A and N, harmonic component #14, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AN_harm_15_min | RMS voltage, between phase A and N, harmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_16_min | RMS voltage, between phase A and N, harmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_17_min | RMS voltage, between phase A and N, harmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_18_min | RMS voltage, between phase A and N, harmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_19_min | RMS voltage, between phase A and N, harmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_20_min | RMS voltage, between phase A and N, harmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_21_min | RMS voltage, between phase A and N, harmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_22_min | RMS voltage, between phase A and N, harmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_23_min | RMS voltage, between phase A and N, harmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_24_min | RMS voltage, between phase A and N, harmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_25_min | RMS voltage, between phase A and N, harmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_26_min | RMS voltage, between phase A and N, harmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_27_min | RMS voltage, between phase A and N, harmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_28_min | RMS voltage, between phase A and N, harmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_29_min | RMS voltage, between phase A and N, harmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_30_min | RMS voltage, between phase A and N, harmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_31_min | RMS voltage, between phase A and N, harmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_32_min | RMS voltage, between phase A and N, harmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_33_min | RMS voltage, between phase A and N, harmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_34_min | RMS voltage, between phase A and N, harmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_35_min | RMS voltage, between phase A and N, harmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_36_min | RMS voltage, between phase A and N, harmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_37_min | RMS voltage, between phase A and N, harmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_38_min | RMS voltage, between phase A and N, harmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_39_min | RMS voltage, between phase A and N, harmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_40_min | RMS voltage, between phase A and N, harmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_41_min | RMS voltage, between phase A and N, harmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_42_min | RMS voltage, between phase A and N, harmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_43_min | RMS voltage, between phase A and N, harmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_44_min | RMS voltage, between phase A and N, harmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_45_min | RMS voltage, between phase A and N, harmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_46_min | RMS voltage, between phase A and N, harmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_47_min | RMS voltage, between phase A and N, harmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_48_min | RMS voltage, between phase A and N, harmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_49_min | RMS voltage, between phase A and N, harmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_50_min | RMS voltage, between phase A and N, harmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_0_min | RMS voltage, between phase B and N, harmonic component DC, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_1_min | RMS voltage, between phase B and N, harmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_2_min | RMS voltage, between phase B and N, harmonic component #2, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_harm_3_min | RMS voltage, between phase B and N, harmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_4_min | RMS voltage, between phase B and N, harmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_5_min | RMS voltage, between phase B and N, harmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_6_min | RMS voltage, between phase B and N, harmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_7_min | RMS voltage, between phase B and N, harmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_8_min | RMS voltage, between phase B and N, harmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_9_min | RMS voltage, between phase B and N, harmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_10_min | RMS voltage, between phase B and N, harmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_11_min | RMS voltage, between phase B and N, harmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_12_min | RMS voltage, between phase B and N, harmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_13_min | RMS voltage, between phase B and N, harmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_14_min | RMS voltage, between phase B and N, harmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_15_min | RMS voltage, between phase B and N, harmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_16_min | RMS voltage, between phase B and N, harmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_17_min | RMS voltage, between phase B and N, harmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_18_min | RMS voltage, between phase B and N, harmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_19_min | RMS voltage, between phase B and N, harmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_20_min | RMS voltage, between phase B and N, harmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_21_min | RMS voltage, between phase B and N, harmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_22_min | RMS voltage, between phase B and N, harmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_23_min | RMS voltage, between phase B and N, harmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_24_min | RMS voltage, between phase B and N, harmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_25_min | RMS voltage, between phase B and N, harmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_26_min | RMS voltage, between phase B and N, harmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_27_min | RMS voltage, between phase B and N, harmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_28_min | RMS voltage, between phase B and N, harmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_29_min | RMS voltage, between phase B and N, harmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_30_min | RMS voltage, between phase B and N, harmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_31_min | RMS voltage, between phase B and N, harmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_32_min | RMS voltage, between phase B and N, harmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_33_min | RMS voltage, between phase B and N, harmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_34_min | RMS voltage, between phase B and N, harmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_35_min | RMS voltage, between phase B and N, harmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_36_min | RMS voltage, between phase B and N, harmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_37_min | RMS voltage, between phase B and N, harmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_38_min | RMS voltage, between phase B and N, harmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_39_min | RMS voltage, between phase B and N, harmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_40_min | RMS voltage, between phase B and N, harmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_41_min | RMS voltage, between phase B and N, harmonic component #41, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_harm_42_min | RMS voltage, between phase B and N, harmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_43_min | RMS voltage, between phase B and N, harmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_44_min | RMS voltage, between phase B and N, harmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_45_min | RMS voltage, between phase B and N, harmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_46_min | RMS voltage, between phase B and N, harmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_47_min | RMS voltage, between phase B and N, harmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_48_min | RMS voltage, between phase B and N, harmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_49_min | RMS voltage, between phase B and N, harmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_50_min | RMS voltage, between phase B and N, harmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_0_min | RMS voltage, between phase C and N, harmonic component DC, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_1_min | RMS voltage, between phase C and N, harmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_2_min | RMS voltage, between phase C and N, harmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_3_min | RMS voltage, between phase C and N, harmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_4_min | RMS voltage, between phase C and N, harmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_5_min | RMS voltage, between phase C and N, harmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_6_min | RMS voltage, between phase C and N, harmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_7_min | RMS voltage, between phase C and N, harmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_8_min | RMS voltage, between phase C and N, harmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_9_min | RMS voltage, between phase C and N, harmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_10_min | RMS voltage, between phase C and N, harmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_11_min | RMS voltage, between phase C and N, harmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_12_min | RMS voltage, between phase C and N, harmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_13_min | RMS voltage, between phase C and N, harmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_14_min | RMS voltage, between phase C and N, harmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_15_min | RMS voltage, between phase C and N, harmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_16_min | RMS voltage, between phase C and N, harmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_17_min | RMS voltage, between phase C and N, harmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_18_min | RMS voltage, between phase C and N, harmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_19_min | RMS voltage, between phase C and N, harmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_20_min | RMS voltage, between phase C and N, harmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_21_min | RMS voltage, between phase C and N, harmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_22_min | RMS voltage, between phase C and N, harmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_23_min | RMS voltage, between phase C and N, harmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_24_min | RMS voltage, between phase C and N, harmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_25_min | RMS voltage, between phase C and N, harmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_26_min | RMS voltage, between phase C and N, harmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_27_min | RMS voltage, between phase C and N, harmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_28_min | RMS voltage, between phase C and N, harmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_29_min | RMS voltage, between phase C and N, harmonic component #29, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CN_harm_30_min | RMS voltage, between phase C and N, harmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_31_min | RMS voltage, between phase C and N, harmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_32_min | RMS voltage, between phase C and N, harmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_33_min | RMS voltage, between phase C and N, harmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_34_min | RMS voltage, between phase C and N, harmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_35_min | RMS voltage, between phase C and N, harmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_36_min | RMS voltage, between phase C and N, harmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_37_min | RMS voltage, between phase C and N, harmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_38_min | RMS voltage, between phase C and N, harmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_39_min | RMS voltage, between phase C and N, harmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_40_min | RMS voltage, between phase C and N, harmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_41_min | RMS voltage, between phase C and N, harmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_42_min | RMS voltage, between phase C and N, harmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_43_min | RMS voltage, between phase C and N, harmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_44_min | RMS voltage, between phase C and N, harmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_45_min | RMS voltage, between phase C and N, harmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_46_min | RMS voltage, between phase C and N, harmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_47_min | RMS voltage, between phase C and N, harmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_48_min | RMS voltage, between phase C and N, harmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_49_min | RMS voltage, between phase C and N, harmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_50_min | RMS voltage, between phase C and N, harmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_0_min | RMS voltage, between phase A and B, harmonic component DC, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_1_min | RMS voltage, between phase A and B, harmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_2_min | RMS voltage, between phase A and B, harmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_3_min | RMS voltage, between phase A and B, harmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_4_min | RMS voltage, between phase A and B, harmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_5_min | RMS voltage, between phase A and B, harmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_6_min | RMS voltage, between phase A and B, harmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_7_min | RMS voltage, between phase A and B, harmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_8_min | RMS voltage, between phase A and B, harmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_9_min | RMS voltage, between phase A and B, harmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_10_min | RMS voltage, between phase A and B, harmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_11_min | RMS voltage, between phase A and B, harmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_12_min | RMS voltage, between phase A and B, harmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_13_min | RMS voltage, between phase A and B, harmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_14_min | RMS voltage, between phase A and B, harmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_15_min | RMS voltage, between phase A and B, harmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_16_min | RMS voltage, between phase A and B, harmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_17_min | RMS voltage, between phase A and B, harmonic component #17, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AB_harm_18_min | RMS voltage, between phase A and B, harmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_19_min | RMS voltage, between phase A and B, harmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_20_min | RMS voltage, between phase A and B, harmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_21_min | RMS voltage, between phase A and B, harmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_22_min | RMS voltage, between phase A and B, harmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_23_min | RMS voltage, between phase A and B, harmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_24_min | RMS voltage, between phase A and B, harmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_25_min | RMS voltage, between phase A and B, harmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_26_min | RMS voltage, between phase A and B, harmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_27_min | RMS voltage, between phase A and B, harmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_28_min | RMS voltage, between phase A and B, harmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_29_min | RMS voltage, between phase A and B, harmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_30_min | RMS voltage, between phase A and B, harmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_31_min | RMS voltage, between phase A and B, harmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_32_min | RMS voltage, between phase A and B, harmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_33_min | RMS voltage, between phase A and B, harmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_34_min | RMS voltage, between phase A and B, harmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_35_min | RMS voltage, between phase A and B, harmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_36_min | RMS voltage, between phase A and B, harmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_37_min | RMS voltage, between phase A and B, harmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_38_min | RMS voltage, between phase A and B, harmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_39_min | RMS voltage, between phase A and B, harmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_40_min | RMS voltage, between phase A and B, harmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_41_min | RMS voltage, between phase A and B, harmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_42_min | RMS voltage, between phase A and B, harmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_43_min | RMS voltage, between phase A and B, harmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_44_min | RMS voltage, between phase A and B, harmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_45_min | RMS voltage, between phase A and B, harmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_46_min | RMS voltage, between phase A and B, harmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_47_min | RMS voltage, between phase A and B, harmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_48_min | RMS voltage, between phase A and B, harmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_49_min | RMS voltage, between phase A and B, harmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_50_min | RMS voltage, between phase A and B, harmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_0_min | RMS voltage, between phase B and C, harmonic component DC, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_1_min | RMS voltage, between phase B and C, harmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_2_min | RMS voltage, between phase B and C, harmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_3_min | RMS voltage, between phase B and C, harmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_4_min | RMS voltage, between phase B and C, harmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_5_min | RMS voltage, between phase B and C, harmonic component #5, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_harm_6_min | RMS voltage, between phase B and C, harmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_7_min | RMS voltage, between phase B and C, harmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_8_min | RMS voltage, between phase B and C, harmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_9_min | RMS voltage, between phase B and C, harmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_10_min | RMS voltage, between phase B and C, harmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_11_min | RMS voltage, between phase B and C, harmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_12_min | RMS voltage, between phase B and C, harmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_13_min | RMS voltage, between phase B and C, harmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_14_min | RMS voltage, between phase B and C, harmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_15_min | RMS voltage, between phase B and C, harmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_16_min | RMS voltage, between phase B and C, harmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_17_min | RMS voltage, between phase B and C, harmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_18_min | RMS voltage, between phase B and C, harmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_19_min | RMS voltage, between phase B and C, harmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_20_min | RMS voltage, between phase B and C, harmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_21_min | RMS voltage, between phase B and C, harmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_22_min | RMS voltage, between phase B and C, harmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_23_min | RMS voltage, between phase B and C, harmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_24_min | RMS voltage, between phase B and C, harmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_25_min | RMS voltage, between phase B and C, harmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_26_min | RMS voltage, between phase B and C, harmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_27_min | RMS voltage, between phase B and C, harmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_28_min | RMS voltage, between phase B and C, harmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_29_min | RMS voltage, between phase B and C, harmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_30_min | RMS voltage, between phase B and C, harmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_31_min | RMS voltage, between phase B and C, harmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_32_min | RMS voltage, between phase B and C, harmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_33_min | RMS voltage, between phase B and C, harmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_34_min | RMS voltage, between phase B and C, harmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_35_min | RMS voltage, between phase B and C, harmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_36_min | RMS voltage, between phase B and C, harmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_37_min | RMS voltage, between phase B and C, harmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_38_min | RMS voltage, between phase B and C, harmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_39_min | RMS voltage, between phase B and C, harmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_40_min | RMS voltage, between phase B and C, harmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_41_min | RMS voltage, between phase B and C, harmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_42_min | RMS voltage, between phase B and C, harmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_43_min | RMS voltage, between phase B and C, harmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_44_min | RMS voltage, between phase B and C, harmonic component #44, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_harm_45_min | RMS voltage, between phase B and C, harmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_46_min | RMS voltage, between phase B and C, harmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_47_min | RMS voltage, between phase B and C, harmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_48_min | RMS voltage, between phase B and C, harmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_49_min | RMS voltage, between phase B and C, harmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_50_min | RMS voltage, between phase B and C, harmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_0_min | RMS voltage, between phase C and A, harmonic component DC, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_1_min | RMS voltage, between phase C and A, harmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_2_min | RMS voltage, between phase C and A, harmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_3_min | RMS voltage, between phase C and A, harmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_4_min | RMS voltage, between phase C and A, harmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_5_min | RMS voltage, between phase C and A, harmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_6_min | RMS voltage, between phase C and A, harmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_7_min | RMS voltage, between phase C and A, harmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_8_min | RMS voltage, between phase C and A, harmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_9_min | RMS voltage, between phase C and A, harmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_10_min | RMS voltage, between phase C and A, harmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_11_min | RMS voltage, between phase C and A, harmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_12_min | RMS voltage, between phase C and A, harmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_13_min | RMS voltage, between phase C and A, harmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_14_min | RMS voltage, between phase C and A, harmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_15_min | RMS voltage, between phase C and A, harmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_16_min | RMS voltage, between phase C and A, harmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_17_min | RMS voltage, between phase C and A, harmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_18_min | RMS voltage, between phase C and A, harmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_19_min | RMS voltage, between phase C and A, harmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_20_min | RMS voltage, between phase C and A, harmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_21_min | RMS voltage, between phase C and A, harmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_22_min | RMS voltage, between phase C and A, harmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_23_min | RMS voltage, between phase C and A, harmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_24_min | RMS voltage, between phase C and A, harmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_25_min | RMS voltage, between phase C and A, harmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_26_min | RMS voltage, between phase C and A, harmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_27_min | RMS voltage, between phase C and A, harmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_28_min | RMS voltage, between phase C and A, harmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_29_min | RMS voltage, between phase C and A, harmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_30_min | RMS voltage, between phase C and A, harmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_31_min | RMS voltage, between phase C and A, harmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_32_min | RMS voltage, between phase C and A, harmonic component #32, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_harm_33_min | RMS voltage, between phase C and A, harmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_34_min | RMS voltage, between phase C and A, harmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_35_min | RMS voltage, between phase C and A, harmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_36_min | RMS voltage, between phase C and A, harmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_37_min | RMS voltage, between phase C and A, harmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_38_min | RMS voltage, between phase C and A, harmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_39_min | RMS voltage, between phase C and A, harmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_40_min | RMS voltage, between phase C and A, harmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_41_min | RMS voltage, between phase C and A, harmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_42_min | RMS voltage, between phase C and A, harmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_43_min | RMS voltage, between phase C and A, harmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_44_min | RMS voltage, between phase C and A, harmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_45_min | RMS voltage, between phase C and A, harmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_46_min | RMS voltage, between phase C and A, harmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_47_min | RMS voltage, between phase C and A, harmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_48_min | RMS voltage, between phase C and A, harmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_49_min | RMS voltage, between phase C and A, harmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_50_min | RMS voltage, between phase C and A, harmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| a_AN_harm_0_min | RMS current, between phase A and N, harmonic component DC, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_1_min | RMS current, between phase A and N, harmonic component #1, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_2_min | RMS current, between phase A and N, harmonic component #2, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_3_min | RMS current, between phase A and N, harmonic component #3, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_4_min | RMS current, between phase A and N, harmonic component #4, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_5_min | RMS current, between phase A and N, harmonic component #5, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_6_min | RMS current, between phase A and N, harmonic component #6, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_7_min | RMS current, between phase A and N, harmonic component #7, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_8_min | RMS current, between phase A and N, harmonic component #8, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_9_min | RMS current, between phase A and N, harmonic component #9, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_10_min | RMS current, between phase A and N, harmonic component #10, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_11_min | RMS current, between phase A and N, harmonic component #11, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_12_min | RMS current, between phase A and N, harmonic component #12, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_13_min | RMS current, between phase A and N, harmonic component #13, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_14_min | RMS current, between phase A and N, harmonic component #14, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_15_min | RMS current, between phase A and N, harmonic component #15, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_16_min | RMS current, between phase A and N, harmonic component #16, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_17_min | RMS current, between phase A and N, harmonic component #17, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_18_min | RMS current, between phase A and N, harmonic component #18, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_19_min | RMS current, between phase A and N, harmonic component #19, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_20_min | RMS current, between phase A and N, harmonic component #20, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_AN_harm_21_min | RMS current, between phase A and N, harmonic component #21, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_22_min | RMS current, between phase A and N, harmonic component #22, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_23_min | RMS current, between phase A and N, harmonic component #23, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_24_min | RMS current, between phase A and N, harmonic component #24, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_25_min | RMS current, between phase A and N, harmonic component #25, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_26_min | RMS current, between phase A and N, harmonic component #26, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_27_min | RMS current, between phase A and N, harmonic component #27, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_28_min | RMS current, between phase A and N, harmonic component #28, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_29_min | RMS current, between phase A and N, harmonic component #29, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_30_min | RMS current, between phase A and N, harmonic component #30, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_31_min | RMS current, between phase A and N, harmonic component #31, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_32_min | RMS current, between phase A and N, harmonic component #32, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_33_min | RMS current, between phase A and N, harmonic component #33, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_34_min | RMS current, between phase A and N, harmonic component #34, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_35_min | RMS current, between phase A and N, harmonic component #35, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_36_min | RMS current, between phase A and N, harmonic component #36, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_37_min | RMS current, between phase A and N, harmonic component #37, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_38_min | RMS current, between phase A and N, harmonic component #38, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_39_min | RMS current, between phase A and N, harmonic component #39, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_40_min | RMS current, between phase A and N, harmonic component #40, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_41_min | RMS current, between phase A and N, harmonic component #41, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_42_min | RMS current, between phase A and N, harmonic component #42, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_43_min | RMS current, between phase A and N, harmonic component #43, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_44_min | RMS current, between phase A and N, harmonic component #44, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_45_min | RMS current, between phase A and N, harmonic component #45, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_46_min | RMS current, between phase A and N, harmonic component #46, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_47_min | RMS current, between phase A and N, harmonic component #47, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_48_min | RMS current, between phase A and N, harmonic component #48, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_49_min | RMS current, between phase A and N, harmonic component #49, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_50_min | RMS current, between phase A and N, harmonic component #50, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_0_min | RMS current, between phase B and N, harmonic component DC, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_1_min | RMS current, between phase B and N, harmonic component #1, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_2_min | RMS current, between phase B and N, harmonic component #2, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_3_min | RMS current, between phase B and N, harmonic component #3, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_4_min | RMS current, between phase B and N, harmonic component #4, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_5_min | RMS current, between phase B and N, harmonic component #5, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_6_min | RMS current, between phase B and N, harmonic component #6, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_7_min | RMS current, between phase B and N, harmonic component #7, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_8_min | RMS current, between phase B and N, harmonic component #8, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_BN_harm_9_min | RMS current, between phase B and N, harmonic component #9, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_10_min | RMS current, between phase B and N, harmonic component #10, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_11_min | RMS current, between phase B and N, harmonic component #11, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_12_min | RMS current, between phase B and N, harmonic component #12, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_13_min | RMS current, between phase B and N, harmonic component #13, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_14_min | RMS current, between phase B and N, harmonic component #14, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_15_min | RMS current, between phase B and N, harmonic component #15, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_16_min | RMS current, between phase B and N, harmonic component #16, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_17_min | RMS current, between phase B and N, harmonic component #17, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_18_min | RMS current, between phase B and N, harmonic component #18, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_19_min | RMS current, between phase B and N, harmonic component #19, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_20_min | RMS current, between phase B and N, harmonic component #20, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_21_min | RMS current, between phase B and N, harmonic component #21, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_22_min | RMS current, between phase B and N, harmonic component #22, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_23_min | RMS current, between phase B and N, harmonic component #23, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_24_min | RMS current, between phase B and N, harmonic component #24, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_25_min | RMS current, between phase B and N, harmonic component #25, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_26_min | RMS current, between phase B and N, harmonic component #26, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_27_min | RMS current, between phase B and N, harmonic component #27, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_28_min | RMS current, between phase B and N, harmonic component #28, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_29_min | RMS current, between phase B and N, harmonic component #29, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_30_min | RMS current, between phase B and N, harmonic component #30, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_31_min | RMS current, between phase B and N, harmonic component #31, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_32_min | RMS current, between phase B and N, harmonic component #32, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_33_min | RMS current, between phase B and N, harmonic component #33, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_34_min | RMS current, between phase B and N, harmonic component #34, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_35_min | RMS current, between phase B and N, harmonic component #35, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_36_min | RMS current, between phase B and N, harmonic component #36, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_37_min | RMS current, between phase B and N, harmonic component #37, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_38_min | RMS current, between phase B and N, harmonic component #38, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_39_min | RMS current, between phase B and N, harmonic component #39, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_40_min | RMS current, between phase B and N, harmonic component #40, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_41_min | RMS current, between phase B and N, harmonic component #41, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_42_min | RMS current, between phase B and N, harmonic component #42, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_43_min | RMS current, between phase B and N, harmonic component #43, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_44_min | RMS current, between phase B and N, harmonic component #44, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_45_min | RMS current, between phase B and N, harmonic component #45, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_46_min | RMS current, between phase B and N, harmonic component #46, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_47_min | RMS current, between phase B and N, harmonic component #47, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_BN_harm_48_min | RMS current, between phase B and N, harmonic component #48, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_49_min | RMS current, between phase B and N, harmonic component #49, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_50_min | RMS current, between phase B and N, harmonic component #50, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_0_min | RMS current, between phase C and N, harmonic component DC, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_1_min | RMS current, between phase C and N, harmonic component #1, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_2_min | RMS current, between phase C and N, harmonic component #2, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_3_min | RMS current, between phase C and N, harmonic component #3, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_4_min | RMS current, between phase C and N, harmonic component #4, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_5_min | RMS current, between phase C and N, harmonic component #5, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_6_min | RMS current, between phase C and N, harmonic component #6, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_7_min | RMS current, between phase C and N, harmonic component #7, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_8_min | RMS current, between phase C and N, harmonic component #8, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_9_min | RMS current, between phase C and N, harmonic component #9, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_10_min | RMS current, between phase C and N, harmonic component #10, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_11_min | RMS current, between phase C and N, harmonic component #11, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_12_min | RMS current, between phase C and N, harmonic component #12, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_13_min | RMS current, between phase C and N, harmonic component #13, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_14_min | RMS current, between phase C and N, harmonic component #14, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_15_min | RMS current, between phase C and N, harmonic component #15, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_16_min | RMS current, between phase C and N, harmonic component #16, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_17_min | RMS current, between phase C and N, harmonic component #17, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_18_min | RMS current, between phase C and N, harmonic component #18, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_19_min | RMS current, between phase C and N, harmonic component #19, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_20_min | RMS current, between phase C and N, harmonic component #20, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_21_min | RMS current, between phase C and N, harmonic component #21, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_22_min | RMS current, between phase C and N, harmonic component #22, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_23_min | RMS current, between phase C and N, harmonic component #23, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_24_min | RMS current, between phase C and N, harmonic component #24, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_25_min | RMS current, between phase C and N, harmonic component #25, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_26_min | RMS current, between phase C and N, harmonic component #26, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_27_min | RMS current, between phase C and N, harmonic component #27, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_28_min | RMS current, between phase C and N, harmonic component #28, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_29_min | RMS current, between phase C and N, harmonic component #29, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_30_min | RMS current, between phase C and N, harmonic component #30, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_31_min | RMS current, between phase C and N, harmonic component #31, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_32_min | RMS current, between phase C and N, harmonic component #32, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_33_min | RMS current, between phase C and N, harmonic component #33, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_34_min | RMS current, between phase C and N, harmonic component #34, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_35_min | RMS current, between phase C and N, harmonic component #35, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_CN_harm_36_min | RMS current, between phase C and N, harmonic component #36, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_37_min | RMS current, between phase C and N, harmonic component #37, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_38_min | RMS current, between phase C and N, harmonic component #38, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_39_min | RMS current, between phase C and N, harmonic component #39, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_40_min | RMS current, between phase C and N, harmonic component #40, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_41_min | RMS current, between phase C and N, harmonic component #41, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_42_min | RMS current, between phase C and N, harmonic component #42, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_43_min | RMS current, between phase C and N, harmonic component #43, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_44_min | RMS current, between phase C and N, harmonic component #44, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_45_min | RMS current, between phase C and N, harmonic component #45, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_46_min | RMS current, between phase C and N, harmonic component #46, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_47_min | RMS current, between phase C and N, harmonic component #47, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_48_min | RMS current, between phase C and N, harmonic component #48, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_49_min | RMS current, between phase C and N, harmonic component #49, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_50_min | RMS current, between phase C and N, harmonic component #50, minimum of 10/12-cycle intervals | A | 600 |
| v_AN_THD_min | RMS voltage, between phase A and N, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| v_BN_THD_min | RMS voltage, between phase B and N, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| v_CN_THD_min | RMS voltage, between phase C and N, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| v_AB_THD_min | RMS voltage, between phase A and B, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| v_BC_THD_min | RMS voltage, between phase B and C, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| v_CA_THD_min | RMS voltage, between phase C and A, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| a_AN_THD_min | RMS current, between phase A and N, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| a_BN_THD_min | RMS current, between phase B and N, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| a_CN_THD_min | RMS current, between phase C and N, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| a_AN_TDD_min | RMS current, between phase A and N, total demand distortion, minimum of 10/12-cycle intervals | % | 600 |
| a_BN_TDD_min | RMS current, between phase B and N, total demand distortion, minimum of 10/12-cycle intervals | % | 600 |
| a_CN_TDD_min | RMS current, between phase C and N, total demand distortion, minimum of 10/12-cycle intervals | % | 600 |
| v_p2p_pos_min | RMS phase-to-phase voltage, positive sequence component, minimum of 10/12-cycle intervals | V | 600 |
| v_p2p_neg_min | RMS phase-to-phase voltage, negative sequence component, minimum of 10/12-cycle intervals | V | 600 |
| unbal_p2p_min | Phase-to-phase negative sequence voltage unbalance, minimum of 10/12-cycle intervals | % | 600 |
| v_p2n_pos_min | RMS line voltage, positive sequence component, minimum of 10/12-cycle intervals | V | 600 |
| v_p2n_neg_min | RMS line voltage, negative sequence component, minimum of 10/12-cycle intervals | V | 600 |
| v_p2n_zero_min | RMS line voltage, zero sequence component, minimum of 10/12-cycle intervals | V | 600 |
| unbal_p2n_min | Phase-to-neutral negative sequence voltage unbalance, minimum of 10/12-cycle intervals | % | 600 |
| freq_min | frequency, minimum of 10/12-cycle intervals | Hz | 600 |
| v_AN_avg | RMS voltage, between phase A and NEUTRAL, average of 10/12-cycle intervals | V | 600 |
| v_BN_avg | RMS voltage, between phase B and NEUTRAL, average of 10/12-cycle intervals | V | 600 |
| v_CN_avg | RMS voltage, between phase C and NEUTRAL, average of 10/12-cycle intervals | V | 600 |
| v_AB_avg | RMS voltage, between phase A and B, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_avg | RMS voltage, between phase B and C, average of 10/12-cycle intervals | V | 600 |
| v_CA_avg | RMS voltage, between phase C and A, average of 10/12-cycle intervals | V | 600 |
| a_AN_avg | RMS current, phase A, average of 10/12-cycle intervals | A | 600 |
| a_BN_avg | RMS current, phase B, average of 10/12-cycle intervals | A | 600 |
| a_CN_avg | RMS current, phase C, average of 10/12-cycle intervals | A | 600 |
| p_AN_avg | Active power, phase A, average of 10/12-cycle intervals | W | 600 |
| p_BN_avg | Active power, phase B, average of 10/12-cycle intervals | W | 600 |
| p_CN_avg | Active power, phase C, average of 10/12-cycle intervals | W | 600 |
| p_TOTAL_avg | Active power, total, average of 10/12-cycle intervals | W | 600 |
| q_AN_avg | Reactive power, phase A, average of 10/12-cycle intervals | VAr | 600 |
| q_BN_avg | Reactive power, phase B, average of 10/12-cycle intervals | VAr | 600 |
| q_CN_avg | Reactive power, phase C, average of 10/12-cycle intervals | VAr | 600 |
| q_TOTAL_avg | Reactive power, total, average of 10/12-cycle intervals | VAr | 600 |
| v_AN_harm_0_avg | RMS voltage, between phase A and N, harmonic component DC, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_1_avg | RMS voltage, between phase A and N, harmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_2_avg | RMS voltage, between phase A and N, harmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_3_avg | RMS voltage, between phase A and N, harmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_4_avg | RMS voltage, between phase A and N, harmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_5_avg | RMS voltage, between phase A and N, harmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_6_avg | RMS voltage, between phase A and N, harmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_7_avg | RMS voltage, between phase A and N, harmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_8_avg | RMS voltage, between phase A and N, harmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_9_avg | RMS voltage, between phase A and N, harmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_10_avg | RMS voltage, between phase A and N, harmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_11_avg | RMS voltage, between phase A and N, harmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_12_avg | RMS voltage, between phase A and N, harmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_13_avg | RMS voltage, between phase A and N, harmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_14_avg | RMS voltage, between phase A and N, harmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_15_avg | RMS voltage, between phase A and N, harmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_16_avg | RMS voltage, between phase A and N, harmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_17_avg | RMS voltage, between phase A and N, harmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_18_avg | RMS voltage, between phase A and N, harmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_19_avg | RMS voltage, between phase A and N, harmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_20_avg | RMS voltage, between phase A and N, harmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_21_avg | RMS voltage, between phase A and N, harmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_22_avg | RMS voltage, between phase A and N, harmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_23_avg | RMS voltage, between phase A and N, harmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_24_avg | RMS voltage, between phase A and N, harmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_25_avg | RMS voltage, between phase A and N, harmonic component #25, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AN_harm_26_avg | RMS voltage, between phase A and N, harmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_27_avg | RMS voltage, between phase A and N, harmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_28_avg | RMS voltage, between phase A and N, harmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_29_avg | RMS voltage, between phase A and N, harmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_30_avg | RMS voltage, between phase A and N, harmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_31_avg | RMS voltage, between phase A and N, harmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_32_avg | RMS voltage, between phase A and N, harmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_33_avg | RMS voltage, between phase A and N, harmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_34_avg | RMS voltage, between phase A and N, harmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_35_avg | RMS voltage, between phase A and N, harmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_36_avg | RMS voltage, between phase A and N, harmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_37_avg | RMS voltage, between phase A and N, harmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_38_avg | RMS voltage, between phase A and N, harmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_39_avg | RMS voltage, between phase A and N, harmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_40_avg | RMS voltage, between phase A and N, harmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_41_avg | RMS voltage, between phase A and N, harmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_42_avg | RMS voltage, between phase A and N, harmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_43_avg | RMS voltage, between phase A and N, harmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_44_avg | RMS voltage, between phase A and N, harmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_45_avg | RMS voltage, between phase A and N, harmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_46_avg | RMS voltage, between phase A and N, harmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_47_avg | RMS voltage, between phase A and N, harmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_48_avg | RMS voltage, between phase A and N, harmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_49_avg | RMS voltage, between phase A and N, harmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_AN_harm_50_avg | RMS voltage, between phase A and N, harmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_0_avg | RMS voltage, between phase B and N, harmonic component DC, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_1_avg | RMS voltage, between phase B and N, harmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_2_avg | RMS voltage, between phase B and N, harmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_3_avg | RMS voltage, between phase B and N, harmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_4_avg | RMS voltage, between phase B and N, harmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_5_avg | RMS voltage, between phase B and N, harmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_6_avg | RMS voltage, between phase B and N, harmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_7_avg | RMS voltage, between phase B and N, harmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_8_avg | RMS voltage, between phase B and N, harmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_9_avg | RMS voltage, between phase B and N, harmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_10_avg | RMS voltage, between phase B and N, harmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_11_avg | RMS voltage, between phase B and N, harmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_12_avg | RMS voltage, between phase B and N, harmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_13_avg | RMS voltage, between phase B and N, harmonic component #13, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_harm_14_avg | RMS voltage, between phase B and N, harmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_15_avg | RMS voltage, between phase B and N, harmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_16_avg | RMS voltage, between phase B and N, harmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_17_avg | RMS voltage, between phase B and N, harmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_18_avg | RMS voltage, between phase B and N, harmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_19_avg | RMS voltage, between phase B and N, harmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_20_avg | RMS voltage, between phase B and N, harmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_21_avg | RMS voltage, between phase B and N, harmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_22_avg | RMS voltage, between phase B and N, harmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_23_avg | RMS voltage, between phase B and N, harmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_24_avg | RMS voltage, between phase B and N, harmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_25_avg | RMS voltage, between phase B and N, harmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_26_avg | RMS voltage, between phase B and N, harmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_27_avg | RMS voltage, between phase B and N, harmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_28_avg | RMS voltage, between phase B and N, harmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_29_avg | RMS voltage, between phase B and N, harmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_30_avg | RMS voltage, between phase B and N, harmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_31_avg | RMS voltage, between phase B and N, harmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_32_avg | RMS voltage, between phase B and N, harmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_33_avg | RMS voltage, between phase B and N, harmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_34_avg | RMS voltage, between phase B and N, harmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_35_avg | RMS voltage, between phase B and N, harmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_36_avg | RMS voltage, between phase B and N, harmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_37_avg | RMS voltage, between phase B and N, harmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_38_avg | RMS voltage, between phase B and N, harmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_39_avg | RMS voltage, between phase B and N, harmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_40_avg | RMS voltage, between phase B and N, harmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_41_avg | RMS voltage, between phase B and N, harmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_42_avg | RMS voltage, between phase B and N, harmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_43_avg | RMS voltage, between phase B and N, harmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_44_avg | RMS voltage, between phase B and N, harmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_45_avg | RMS voltage, between phase B and N, harmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_46_avg | RMS voltage, between phase B and N, harmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_47_avg | RMS voltage, between phase B and N, harmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_48_avg | RMS voltage, between phase B and N, harmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_49_avg | RMS voltage, between phase B and N, harmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_BN_harm_50_avg | RMS voltage, between phase B and N, harmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_0_avg | RMS voltage, between phase C and N, harmonic component DC, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_1_avg | RMS voltage, between phase C and N, harmonic component #1, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CN_harm_2_avg | RMS voltage, between phase C and N, harmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_3_avg | RMS voltage, between phase C and N, harmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_4_avg | RMS voltage, between phase C and N, harmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_5_avg | RMS voltage, between phase C and N, harmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_6_avg | RMS voltage, between phase C and N, harmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_7_avg | RMS voltage, between phase C and N, harmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_8_avg | RMS voltage, between phase C and N, harmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_9_avg | RMS voltage, between phase C and N, harmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_10_avg | RMS voltage, between phase C and N, harmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_11_avg | RMS voltage, between phase C and N, harmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_12_avg | RMS voltage, between phase C and N, harmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_13_avg | RMS voltage, between phase C and N, harmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_14_avg | RMS voltage, between phase C and N, harmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_15_avg | RMS voltage, between phase C and N, harmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_16_avg | RMS voltage, between phase C and N, harmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_17_avg | RMS voltage, between phase C and N, harmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_18_avg | RMS voltage, between phase C and N, harmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_19_avg | RMS voltage, between phase C and N, harmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_20_avg | RMS voltage, between phase C and N, harmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_21_avg | RMS voltage, between phase C and N, harmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_22_avg | RMS voltage, between phase C and N, harmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_23_avg | RMS voltage, between phase C and N, harmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_24_avg | RMS voltage, between phase C and N, harmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_25_avg | RMS voltage, between phase C and N, harmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_26_avg | RMS voltage, between phase C and N, harmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_27_avg | RMS voltage, between phase C and N, harmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_28_avg | RMS voltage, between phase C and N, harmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_29_avg | RMS voltage, between phase C and N, harmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_30_avg | RMS voltage, between phase C and N, harmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_31_avg | RMS voltage, between phase C and N, harmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_32_avg | RMS voltage, between phase C and N, harmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_33_avg | RMS voltage, between phase C and N, harmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_34_avg | RMS voltage, between phase C and N, harmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_35_avg | RMS voltage, between phase C and N, harmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_36_avg | RMS voltage, between phase C and N, harmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_37_avg | RMS voltage, between phase C and N, harmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_38_avg | RMS voltage, between phase C and N, harmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_39_avg | RMS voltage, between phase C and N, harmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_40_avg | RMS voltage, between phase C and N, harmonic component #40, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CN_harm_41_avg | RMS voltage, between phase C and N, harmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_42_avg | RMS voltage, between phase C and N, harmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_43_avg | RMS voltage, between phase C and N, harmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_44_avg | RMS voltage, between phase C and N, harmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_45_avg | RMS voltage, between phase C and N, harmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_46_avg | RMS voltage, between phase C and N, harmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_47_avg | RMS voltage, between phase C and N, harmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_48_avg | RMS voltage, between phase C and N, harmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_49_avg | RMS voltage, between phase C and N, harmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_CN_harm_50_avg | RMS voltage, between phase C and N, harmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_0_avg | RMS voltage, between phase A and B, harmonic component DC, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_1_avg | RMS voltage, between phase A and B, harmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_2_avg | RMS voltage, between phase A and B, harmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_3_avg | RMS voltage, between phase A and B, harmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_4_avg | RMS voltage, between phase A and B, harmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_5_avg | RMS voltage, between phase A and B, harmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_6_avg | RMS voltage, between phase A and B, harmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_7_avg | RMS voltage, between phase A and B, harmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_8_avg | RMS voltage, between phase A and B, harmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_9_avg | RMS voltage, between phase A and B, harmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_10_avg | RMS voltage, between phase A and B, harmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_11_avg | RMS voltage, between phase A and B, harmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_12_avg | RMS voltage, between phase A and B, harmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_13_avg | RMS voltage, between phase A and B, harmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_14_avg | RMS voltage, between phase A and B, harmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_15_avg | RMS voltage, between phase A and B, harmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_16_avg | RMS voltage, between phase A and B, harmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_17_avg | RMS voltage, between phase A and B, harmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_18_avg | RMS voltage, between phase A and B, harmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_19_avg | RMS voltage, between phase A and B, harmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_20_avg | RMS voltage, between phase A and B, harmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_21_avg | RMS voltage, between phase A and B, harmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_22_avg | RMS voltage, between phase A and B, harmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_23_avg | RMS voltage, between phase A and B, harmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_24_avg | RMS voltage, between phase A and B, harmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_25_avg | RMS voltage, between phase A and B, harmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_26_avg | RMS voltage, between phase A and B, harmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_27_avg | RMS voltage, between phase A and B, harmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_28_avg | RMS voltage, between phase A and B, harmonic component #28, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AB_harm_29_avg | RMS voltage, between phase A and B, harmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_30_avg | RMS voltage, between phase A and B, harmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_31_avg | RMS voltage, between phase A and B, harmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_32_avg | RMS voltage, between phase A and B, harmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_33_avg | RMS voltage, between phase A and B, harmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_34_avg | RMS voltage, between phase A and B, harmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_35_avg | RMS voltage, between phase A and B, harmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_36_avg | RMS voltage, between phase A and B, harmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_37_avg | RMS voltage, between phase A and B, harmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_38_avg | RMS voltage, between phase A and B, harmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_39_avg | RMS voltage, between phase A and B, harmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_40_avg | RMS voltage, between phase A and B, harmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_41_avg | RMS voltage, between phase A and B, harmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_42_avg | RMS voltage, between phase A and B, harmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_43_avg | RMS voltage, between phase A and B, harmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_44_avg | RMS voltage, between phase A and B, harmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_45_avg | RMS voltage, between phase A and B, harmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_46_avg | RMS voltage, between phase A and B, harmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_47_avg | RMS voltage, between phase A and B, harmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_48_avg | RMS voltage, between phase A and B, harmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_49_avg | RMS voltage, between phase A and B, harmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_AB_harm_50_avg | RMS voltage, between phase A and B, harmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_0_avg | RMS voltage, between phase B and C, harmonic component DC, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_1_avg | RMS voltage, between phase B and C, harmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_2_avg | RMS voltage, between phase B and C, harmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_3_avg | RMS voltage, between phase B and C, harmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_4_avg | RMS voltage, between phase B and C, harmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_5_avg | RMS voltage, between phase B and C, harmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_6_avg | RMS voltage, between phase B and C, harmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_7_avg | RMS voltage, between phase B and C, harmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_8_avg | RMS voltage, between phase B and C, harmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_9_avg | RMS voltage, between phase B and C, harmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_10_avg | RMS voltage, between phase B and C, harmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_11_avg | RMS voltage, between phase B and C, harmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_12_avg | RMS voltage, between phase B and C, harmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_13_avg | RMS voltage, between phase B and C, harmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_14_avg | RMS voltage, between phase B and C, harmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_15_avg | RMS voltage, between phase B and C, harmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_16_avg | RMS voltage, between phase B and C, harmonic component #16, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_harm_17_avg | RMS voltage, between phase B and C, harmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_18_avg | RMS voltage, between phase B and C, harmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_19_avg | RMS voltage, between phase B and C, harmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_20_avg | RMS voltage, between phase B and C, harmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_21_avg | RMS voltage, between phase B and C, harmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_22_avg | RMS voltage, between phase B and C, harmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_23_avg | RMS voltage, between phase B and C, harmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_24_avg | RMS voltage, between phase B and C, harmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_25_avg | RMS voltage, between phase B and C, harmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_26_avg | RMS voltage, between phase B and C, harmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_27_avg | RMS voltage, between phase B and C, harmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_28_avg | RMS voltage, between phase B and C, harmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_29_avg | RMS voltage, between phase B and C, harmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_30_avg | RMS voltage, between phase B and C, harmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_31_avg | RMS voltage, between phase B and C, harmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_32_avg | RMS voltage, between phase B and C, harmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_33_avg | RMS voltage, between phase B and C, harmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_34_avg | RMS voltage, between phase B and C, harmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_35_avg | RMS voltage, between phase B and C, harmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_36_avg | RMS voltage, between phase B and C, harmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_37_avg | RMS voltage, between phase B and C, harmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_38_avg | RMS voltage, between phase B and C, harmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_39_avg | RMS voltage, between phase B and C, harmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_40_avg | RMS voltage, between phase B and C, harmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_41_avg | RMS voltage, between phase B and C, harmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_42_avg | RMS voltage, between phase B and C, harmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_43_avg | RMS voltage, between phase B and C, harmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_44_avg | RMS voltage, between phase B and C, harmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_45_avg | RMS voltage, between phase B and C, harmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_46_avg | RMS voltage, between phase B and C, harmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_47_avg | RMS voltage, between phase B and C, harmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_48_avg | RMS voltage, between phase B and C, harmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_49_avg | RMS voltage, between phase B and C, harmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_BC_harm_50_avg | RMS voltage, between phase B and C, harmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_0_avg | RMS voltage, between phase C and A, harmonic component DC, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_1_avg | RMS voltage, between phase C and A, harmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_2_avg | RMS voltage, between phase C and A, harmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_3_avg | RMS voltage, between phase C and A, harmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_4_avg | RMS voltage, between phase C and A, harmonic component #4, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_harm_5_avg | RMS voltage, between phase C and A, harmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_6_avg | RMS voltage, between phase C and A, harmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_7_avg | RMS voltage, between phase C and A, harmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_8_avg | RMS voltage, between phase C and A, harmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_9_avg | RMS voltage, between phase C and A, harmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_10_avg | RMS voltage, between phase C and A, harmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_11_avg | RMS voltage, between phase C and A, harmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_12_avg | RMS voltage, between phase C and A, harmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_13_avg | RMS voltage, between phase C and A, harmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_14_avg | RMS voltage, between phase C and A, harmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_15_avg | RMS voltage, between phase C and A, harmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_16_avg | RMS voltage, between phase C and A, harmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_17_avg | RMS voltage, between phase C and A, harmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_18_avg | RMS voltage, between phase C and A, harmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_19_avg | RMS voltage, between phase C and A, harmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_20_avg | RMS voltage, between phase C and A, harmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_21_avg | RMS voltage, between phase C and A, harmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_22_avg | RMS voltage, between phase C and A, harmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_23_avg | RMS voltage, between phase C and A, harmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_24_avg | RMS voltage, between phase C and A, harmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_25_avg | RMS voltage, between phase C and A, harmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_26_avg | RMS voltage, between phase C and A, harmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_27_avg | RMS voltage, between phase C and A, harmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_28_avg | RMS voltage, between phase C and A, harmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_29_avg | RMS voltage, between phase C and A, harmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_30_avg | RMS voltage, between phase C and A, harmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_31_avg | RMS voltage, between phase C and A, harmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_32_avg | RMS voltage, between phase C and A, harmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_33_avg | RMS voltage, between phase C and A, harmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_34_avg | RMS voltage, between phase C and A, harmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_35_avg | RMS voltage, between phase C and A, harmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_36_avg | RMS voltage, between phase C and A, harmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_37_avg | RMS voltage, between phase C and A, harmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_38_avg | RMS voltage, between phase C and A, harmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_39_avg | RMS voltage, between phase C and A, harmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_40_avg | RMS voltage, between phase C and A, harmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_41_avg | RMS voltage, between phase C and A, harmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_42_avg | RMS voltage, between phase C and A, harmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_43_avg | RMS voltage, between phase C and A, harmonic component #43, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_harm_44_avg | RMS voltage, between phase C and A, harmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_45_avg | RMS voltage, between phase C and A, harmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_46_avg | RMS voltage, between phase C and A, harmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_47_avg | RMS voltage, between phase C and A, harmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_48_avg | RMS voltage, between phase C and A, harmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_49_avg | RMS voltage, between phase C and A, harmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_CA_harm_50_avg | RMS voltage, between phase C and A, harmonic component #50, average of 10/12-cycle intervals | V | 600 |
| a_AN_harm_0_avg | RMS current, between phase A and N, harmonic component DC, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_1_avg | RMS current, between phase A and N, harmonic component #1, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_2_avg | RMS current, between phase A and N, harmonic component #2, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_3_avg | RMS current, between phase A and N, harmonic component #3, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_4_avg | RMS current, between phase A and N, harmonic component #4, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_5_avg | RMS current, between phase A and N, harmonic component #5, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_6_avg | RMS current, between phase A and N, harmonic component #6, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_7_avg | RMS current, between phase A and N, harmonic component #7, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_8_avg | RMS current, between phase A and N, harmonic component #8, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_9_avg | RMS current, between phase A and N, harmonic component #9, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_10_avg | RMS current, between phase A and N, harmonic component #10, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_11_avg | RMS current, between phase A and N, harmonic component #11, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_12_avg | RMS current, between phase A and N, harmonic component #12, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_13_avg | RMS current, between phase A and N, harmonic component #13, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_14_avg | RMS current, between phase A and N, harmonic component #14, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_15_avg | RMS current, between phase A and N, harmonic component #15, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_16_avg | RMS current, between phase A and N, harmonic component #16, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_17_avg | RMS current, between phase A and N, harmonic component #17, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_18_avg | RMS current, between phase A and N, harmonic component #18, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_19_avg | RMS current, between phase A and N, harmonic component #19, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_20_avg | RMS current, between phase A and N, harmonic component #20, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_21_avg | RMS current, between phase A and N, harmonic component #21, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_22_avg | RMS current, between phase A and N, harmonic component #22, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_23_avg | RMS current, between phase A and N, harmonic component #23, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_24_avg | RMS current, between phase A and N, harmonic component #24, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_25_avg | RMS current, between phase A and N, harmonic component #25, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_26_avg | RMS current, between phase A and N, harmonic component #26, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_27_avg | RMS current, between phase A and N, harmonic component #27, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_28_avg | RMS current, between phase A and N, harmonic component #28, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_29_avg | RMS current, between phase A and N, harmonic component #29, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_30_avg | RMS current, between phase A and N, harmonic component #30, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_31_avg | RMS current, between phase A and N, harmonic component #31, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_AN_harm_32_avg | RMS current, between phase A and N, harmonic component #32, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_33_avg | RMS current, between phase A and N, harmonic component #33, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_34_avg | RMS current, between phase A and N, harmonic component #34, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_35_avg | RMS current, between phase A and N, harmonic component #35, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_36_avg | RMS current, between phase A and N, harmonic component #36, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_37_avg | RMS current, between phase A and N, harmonic component #37, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_38_avg | RMS current, between phase A and N, harmonic component #38, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_39_avg | RMS current, between phase A and N, harmonic component #39, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_40_avg | RMS current, between phase A and N, harmonic component #40, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_41_avg | RMS current, between phase A and N, harmonic component #41, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_42_avg | RMS current, between phase A and N, harmonic component #42, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_43_avg | RMS current, between phase A and N, harmonic component #43, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_44_avg | RMS current, between phase A and N, harmonic component #44, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_45_avg | RMS current, between phase A and N, harmonic component #45, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_46_avg | RMS current, between phase A and N, harmonic component #46, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_47_avg | RMS current, between phase A and N, harmonic component #47, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_48_avg | RMS current, between phase A and N, harmonic component #48, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_49_avg | RMS current, between phase A and N, harmonic component #49, average of 10/12-cycle intervals | A | 600 |
| a_AN_harm_50_avg | RMS current, between phase A and N, harmonic component #50, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_0_avg | RMS current, between phase B and N, harmonic component DC, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_1_avg | RMS current, between phase B and N, harmonic component #1, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_2_avg | RMS current, between phase B and N, harmonic component #2, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_3_avg | RMS current, between phase B and N, harmonic component #3, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_4_avg | RMS current, between phase B and N, harmonic component #4, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_5_avg | RMS current, between phase B and N, harmonic component #5, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_6_avg | RMS current, between phase B and N, harmonic component #6, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_7_avg | RMS current, between phase B and N, harmonic component #7, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_8_avg | RMS current, between phase B and N, harmonic component #8, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_9_avg | RMS current, between phase B and N, harmonic component #9, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_10_avg | RMS current, between phase B and N, harmonic component #10, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_11_avg | RMS current, between phase B and N, harmonic component #11, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_12_avg | RMS current, between phase B and N, harmonic component #12, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_13_avg | RMS current, between phase B and N, harmonic component #13, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_14_avg | RMS current, between phase B and N, harmonic component #14, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_15_avg | RMS current, between phase B and N, harmonic component #15, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_16_avg | RMS current, between phase B and N, harmonic component #16, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_17_avg | RMS current, between phase B and N, harmonic component #17, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_18_avg | RMS current, between phase B and N, harmonic component #18, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_19_avg | RMS current, between phase B and N, harmonic component #19, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_BN_harm_20_avg | RMS current, between phase B and N, harmonic component #20, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_21_avg | RMS current, between phase B and N, harmonic component #21, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_22_avg | RMS current, between phase B and N, harmonic component #22, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_23_avg | RMS current, between phase B and N, harmonic component #23, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_24_avg | RMS current, between phase B and N, harmonic component #24, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_25_avg | RMS current, between phase B and N, harmonic component #25, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_26_avg | RMS current, between phase B and N, harmonic component #26, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_27_avg | RMS current, between phase B and N, harmonic component #27, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_28_avg | RMS current, between phase B and N, harmonic component #28, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_29_avg | RMS current, between phase B and N, harmonic component #29, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_30_avg | RMS current, between phase B and N, harmonic component #30, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_31_avg | RMS current, between phase B and N, harmonic component #31, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_32_avg | RMS current, between phase B and N, harmonic component #32, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_33_avg | RMS current, between phase B and N, harmonic component #33, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_34_avg | RMS current, between phase B and N, harmonic component #34, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_35_avg | RMS current, between phase B and N, harmonic component #35, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_36_avg | RMS current, between phase B and N, harmonic component #36, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_37_avg | RMS current, between phase B and N, harmonic component #37, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_38_avg | RMS current, between phase B and N, harmonic component #38, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_39_avg | RMS current, between phase B and N, harmonic component #39, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_40_avg | RMS current, between phase B and N, harmonic component #40, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_41_avg | RMS current, between phase B and N, harmonic component #41, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_42_avg | RMS current, between phase B and N, harmonic component #42, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_43_avg | RMS current, between phase B and N, harmonic component #43, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_44_avg | RMS current, between phase B and N, harmonic component #44, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_45_avg | RMS current, between phase B and N, harmonic component #45, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_46_avg | RMS current, between phase B and N, harmonic component #46, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_47_avg | RMS current, between phase B and N, harmonic component #47, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_48_avg | RMS current, between phase B and N, harmonic component #48, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_49_avg | RMS current, between phase B and N, harmonic component #49, average of 10/12-cycle intervals | A | 600 |
| a_BN_harm_50_avg | RMS current, between phase B and N, harmonic component #50, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_0_avg | RMS current, between phase C and N, harmonic component DC, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_1_avg | RMS current, between phase C and N, harmonic component #1, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_2_avg | RMS current, between phase C and N, harmonic component #2, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_3_avg | RMS current, between phase C and N, harmonic component #3, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_4_avg | RMS current, between phase C and N, harmonic component #4, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_5_avg | RMS current, between phase C and N, harmonic component #5, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_6_avg | RMS current, between phase C and N, harmonic component #6, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_7_avg | RMS current, between phase C and N, harmonic component #7, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_CN_harm_8_avg | RMS current, between phase C and N, harmonic component #8, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_9_avg | RMS current, between phase C and N, harmonic component #9, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_10_avg | RMS current, between phase C and N, harmonic component #10, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_11_avg | RMS current, between phase C and N, harmonic component #11, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_12_avg | RMS current, between phase C and N, harmonic component #12, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_13_avg | RMS current, between phase C and N, harmonic component #13, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_14_avg | RMS current, between phase C and N, harmonic component #14, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_15_avg | RMS current, between phase C and N, harmonic component #15, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_16_avg | RMS current, between phase C and N, harmonic component #16, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_17_avg | RMS current, between phase C and N, harmonic component #17, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_18_avg | RMS current, between phase C and N, harmonic component #18, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_19_avg | RMS current, between phase C and N, harmonic component #19, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_20_avg | RMS current, between phase C and N, harmonic component #20, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_21_avg | RMS current, between phase C and N, harmonic component #21, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_22_avg | RMS current, between phase C and N, harmonic component #22, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_23_avg | RMS current, between phase C and N, harmonic component #23, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_24_avg | RMS current, between phase C and N, harmonic component #24, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_25_avg | RMS current, between phase C and N, harmonic component #25, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_26_avg | RMS current, between phase C and N, harmonic component #26, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_27_avg | RMS current, between phase C and N, harmonic component #27, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_28_avg | RMS current, between phase C and N, harmonic component #28, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_29_avg | RMS current, between phase C and N, harmonic component #29, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_30_avg | RMS current, between phase C and N, harmonic component #30, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_31_avg | RMS current, between phase C and N, harmonic component #31, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_32_avg | RMS current, between phase C and N, harmonic component #32, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_33_avg | RMS current, between phase C and N, harmonic component #33, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_34_avg | RMS current, between phase C and N, harmonic component #34, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_35_avg | RMS current, between phase C and N, harmonic component #35, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_36_avg | RMS current, between phase C and N, harmonic component #36, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_37_avg | RMS current, between phase C and N, harmonic component #37, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_38_avg | RMS current, between phase C and N, harmonic component #38, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_39_avg | RMS current, between phase C and N, harmonic component #39, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_40_avg | RMS current, between phase C and N, harmonic component #40, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_41_avg | RMS current, between phase C and N, harmonic component #41, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_42_avg | RMS current, between phase C and N, harmonic component #42, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_43_avg | RMS current, between phase C and N, harmonic component #43, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_44_avg | RMS current, between phase C and N, harmonic component #44, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_45_avg | RMS current, between phase C and N, harmonic component #45, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_46_avg | RMS current, between phase C and N, harmonic component #46, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_CN_harm_47_avg | RMS current, between phase C and N, harmonic component #47, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_48_avg | RMS current, between phase C and N, harmonic component #48, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_49_avg | RMS current, between phase C and N, harmonic component #49, average of 10/12-cycle intervals | A | 600 |
| a_CN_harm_50_avg | RMS current, between phase C and N, harmonic component #50, average of 10/12-cycle intervals | A | 600 |
| v_AN_THD_avg | RMS voltage, between phase A and N, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| v_BN_THD_avg | RMS voltage, between phase B and N, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| v_CN_THD_avg | RMS voltage, between phase C and N, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| v_AB_THD_avg | RMS voltage, between phase A and B, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| v_BC_THD_avg | RMS voltage, between phase B and C, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| v_CA_THD_avg | RMS voltage, between phase C and A, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| a_AN_THD_avg | RMS current, between phase A and N, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| a_BN_THD_avg | RMS current, between phase B and N, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| a_CN_THD_avg | RMS current, between phase C and N, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| a_AN_TDD_avg | RMS current, between phase A and N, total demand distortion, average of 10/12-cycle intervals | % | 600 |
| a_BN_TDD_avg | RMS current, between phase B and N, total demand distortion, average of 10/12-cycle intervals | % | 600 |
| a_CN_TDD_avg | RMS current, between phase C and N, total demand distortion, average of 10/12-cycle intervals | % | 600 |
| v_p2p_pos_avg | RMS phase-to-phase voltage, positive sequence component, average of 10/12-cycle intervals | V | 600 |
| v_p2p_neg_avg | RMS phase-to-phase voltage, negative sequence component, average of 10/12-cycle intervals | V | 600 |
| unbal_p2p_avg | Phase-to-phase negative sequence voltage unbalance, average of 10/12-cycle intervals | % | 600 |
| v_p2n_pos_avg | RMS line voltage, positive sequence component, average of 10/12-cycle intervals | V | 600 |
| v_p2n_neg_avg | RMS line voltage, negative sequence component, average of 10/12-cycle intervals | V | 600 |
| v_p2n_zero_avg | RMS line voltage, zero sequence component, average of 10/12-cycle intervals | V | 600 |
| unbal_p2n_avg | Phase-to-neutral negative sequence voltage unbalance, average of 10/12-cycle intervals | % | 600 |
| freq_avg | frequency, average of 10/12-cycle intervals | Hz | 600 |
| v_AN_pst | RMS voltage, between phase A and NEUTRAL, short term flicker | None | 600 |
| v_BN_pst | RMS voltage, between phase B and NEUTRAL, short term flicker | None | 600 |
| v_CN_pst | RMS voltage, between phase C and NEUTRAL, short term flicker | None | 600 |
| v_AN_plt | RMS voltage, between phase A and NEUTRAL, long term flicker | None | 7200 |
| v_BN_plt | RMS voltage, between phase B and NEUTRAL, long term flicker | None | 7200 |
| v_CN_plt | RMS voltage, between phase C and NEUTRAL, long term flicker | None | 7200 |
| v_AN_max | RMS voltage, between phase A and NEUTRAL, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_max | RMS voltage, between phase B and NEUTRAL, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_max | RMS voltage, between phase C and NEUTRAL, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_max | RMS voltage, between phase A and B, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_max | RMS voltage, between phase B and C, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_max | RMS voltage, between phase C and A, maximum of 10/12-cycle intervals | V | 600 |
| a_AN_max | RMS current, phase A, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_max | RMS current, phase B, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_max | RMS current, phase C, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| p_AN_max | Active power, phase A, maximum of 10/12-cycle intervals | W | 600 |
| p_BN_max | Active power, phase B, maximum of 10/12-cycle intervals | W | 600 |
| p_CN_max | Active power, phase C, maximum of 10/12-cycle intervals | W | 600 |
| p_TOTAL_max | Active power, total, maximum of 10/12-cycle intervals | W | 600 |
| q_AN_max | Reactive power, phase A, maximum of 10/12-cycle intervals | VAr | 600 |
| q_BN_max | Reactive power, phase B, maximum of 10/12-cycle intervals | VAr | 600 |
| q_CN_max | Reactive power, phase C, maximum of 10/12-cycle intervals | VAr | 600 |
| q_TOTAL_max | Reactive power, total, maximum of 10/12-cycle intervals | VAr | 600 |
| v_AN_harm_0_max | RMS voltage, between phase A and N, harmonic component DC, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_1_max | RMS voltage, between phase A and N, harmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_2_max | RMS voltage, between phase A and N, harmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_3_max | RMS voltage, between phase A and N, harmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_4_max | RMS voltage, between phase A and N, harmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_5_max | RMS voltage, between phase A and N, harmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_6_max | RMS voltage, between phase A and N, harmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_7_max | RMS voltage, between phase A and N, harmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_8_max | RMS voltage, between phase A and N, harmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_9_max | RMS voltage, between phase A and N, harmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_10_max | RMS voltage, between phase A and N, harmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_11_max | RMS voltage, between phase A and N, harmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_12_max | RMS voltage, between phase A and N, harmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_13_max | RMS voltage, between phase A and N, harmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_14_max | RMS voltage, between phase A and N, harmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_15_max | RMS voltage, between phase A and N, harmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_16_max | RMS voltage, between phase A and N, harmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_17_max | RMS voltage, between phase A and N, harmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_18_max | RMS voltage, between phase A and N, harmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_19_max | RMS voltage, between phase A and N, harmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_20_max | RMS voltage, between phase A and N, harmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_21_max | RMS voltage, between phase A and N, harmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_22_max | RMS voltage, between phase A and N, harmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_23_max | RMS voltage, between phase A and N, harmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_24_max | RMS voltage, between phase A and N, harmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_25_max | RMS voltage, between phase A and N, harmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_26_max | RMS voltage, between phase A and N, harmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_27_max | RMS voltage, between phase A and N, harmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_28_max | RMS voltage, between phase A and N, harmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_29_max | RMS voltage, between phase A and N, harmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_30_max | RMS voltage, between phase A and N, harmonic component #30, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AN_harm_31_max | RMS voltage, between phase A and N, harmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_32_max | RMS voltage, between phase A and N, harmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_33_max | RMS voltage, between phase A and N, harmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_34_max | RMS voltage, between phase A and N, harmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_35_max | RMS voltage, between phase A and N, harmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_36_max | RMS voltage, between phase A and N, harmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_37_max | RMS voltage, between phase A and N, harmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_38_max | RMS voltage, between phase A and N, harmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_39_max | RMS voltage, between phase A and N, harmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_40_max | RMS voltage, between phase A and N, harmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_41_max | RMS voltage, between phase A and N, harmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_42_max | RMS voltage, between phase A and N, harmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_43_max | RMS voltage, between phase A and N, harmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_44_max | RMS voltage, between phase A and N, harmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_45_max | RMS voltage, between phase A and N, harmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_46_max | RMS voltage, between phase A and N, harmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_47_max | RMS voltage, between phase A and N, harmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_48_max | RMS voltage, between phase A and N, harmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_49_max | RMS voltage, between phase A and N, harmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_harm_50_max | RMS voltage, between phase A and N, harmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_0_max | RMS voltage, between phase B and N, harmonic component DC, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_1_max | RMS voltage, between phase B and N, harmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_2_max | RMS voltage, between phase B and N, harmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_3_max | RMS voltage, between phase B and N, harmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_4_max | RMS voltage, between phase B and N, harmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_5_max | RMS voltage, between phase B and N, harmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_6_max | RMS voltage, between phase B and N, harmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_7_max | RMS voltage, between phase B and N, harmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_8_max | RMS voltage, between phase B and N, harmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_9_max | RMS voltage, between phase B and N, harmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_10_max | RMS voltage, between phase B and N, harmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_11_max | RMS voltage, between phase B and N, harmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_12_max | RMS voltage, between phase B and N, harmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_13_max | RMS voltage, between phase B and N, harmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_14_max | RMS voltage, between phase B and N, harmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_15_max | RMS voltage, between phase B and N, harmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_16_max | RMS voltage, between phase B and N, harmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_17_max | RMS voltage, between phase B and N, harmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_18_max | RMS voltage, between phase B and N, harmonic component #18, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_harm_19_max | RMS voltage, between phase B and N, harmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_20_max | RMS voltage, between phase B and N, harmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_21_max | RMS voltage, between phase B and N, harmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_22_max | RMS voltage, between phase B and N, harmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_23_max | RMS voltage, between phase B and N, harmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_24_max | RMS voltage, between phase B and N, harmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_25_max | RMS voltage, between phase B and N, harmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_26_max | RMS voltage, between phase B and N, harmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_27_max | RMS voltage, between phase B and N, harmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_28_max | RMS voltage, between phase B and N, harmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_29_max | RMS voltage, between phase B and N, harmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_30_max | RMS voltage, between phase B and N, harmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_31_max | RMS voltage, between phase B and N, harmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_32_max | RMS voltage, between phase B and N, harmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_33_max | RMS voltage, between phase B and N, harmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_34_max | RMS voltage, between phase B and N, harmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_35_max | RMS voltage, between phase B and N, harmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_36_max | RMS voltage, between phase B and N, harmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_37_max | RMS voltage, between phase B and N, harmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_38_max | RMS voltage, between phase B and N, harmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_39_max | RMS voltage, between phase B and N, harmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_40_max | RMS voltage, between phase B and N, harmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_41_max | RMS voltage, between phase B and N, harmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_42_max | RMS voltage, between phase B and N, harmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_43_max | RMS voltage, between phase B and N, harmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_44_max | RMS voltage, between phase B and N, harmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_45_max | RMS voltage, between phase B and N, harmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_46_max | RMS voltage, between phase B and N, harmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_47_max | RMS voltage, between phase B and N, harmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_48_max | RMS voltage, between phase B and N, harmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_49_max | RMS voltage, between phase B and N, harmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_harm_50_max | RMS voltage, between phase B and N, harmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_0_max | RMS voltage, between phase C and N, harmonic component DC, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_1_max | RMS voltage, between phase C and N, harmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_2_max | RMS voltage, between phase C and N, harmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_3_max | RMS voltage, between phase C and N, harmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_4_max | RMS voltage, between phase C and N, harmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_5_max | RMS voltage, between phase C and N, harmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_6_max | RMS voltage, between phase C and N, harmonic component #6, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CN_harm_7_max | RMS voltage, between phase C and N, harmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_8_max | RMS voltage, between phase C and N, harmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_9_max | RMS voltage, between phase C and N, harmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_10_max | RMS voltage, between phase C and N, harmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_11_max | RMS voltage, between phase C and N, harmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_12_max | RMS voltage, between phase C and N, harmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_13_max | RMS voltage, between phase C and N, harmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_14_max | RMS voltage, between phase C and N, harmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_15_max | RMS voltage, between phase C and N, harmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_16_max | RMS voltage, between phase C and N, harmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_17_max | RMS voltage, between phase C and N, harmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_18_max | RMS voltage, between phase C and N, harmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_19_max | RMS voltage, between phase C and N, harmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_20_max | RMS voltage, between phase C and N, harmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_21_max | RMS voltage, between phase C and N, harmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_22_max | RMS voltage, between phase C and N, harmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_23_max | RMS voltage, between phase C and N, harmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_24_max | RMS voltage, between phase C and N, harmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_25_max | RMS voltage, between phase C and N, harmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_26_max | RMS voltage, between phase C and N, harmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_27_max | RMS voltage, between phase C and N, harmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_28_max | RMS voltage, between phase C and N, harmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_29_max | RMS voltage, between phase C and N, harmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_30_max | RMS voltage, between phase C and N, harmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_31_max | RMS voltage, between phase C and N, harmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_32_max | RMS voltage, between phase C and N, harmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_33_max | RMS voltage, between phase C and N, harmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_34_max | RMS voltage, between phase C and N, harmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_35_max | RMS voltage, between phase C and N, harmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_36_max | RMS voltage, between phase C and N, harmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_37_max | RMS voltage, between phase C and N, harmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_38_max | RMS voltage, between phase C and N, harmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_39_max | RMS voltage, between phase C and N, harmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_40_max | RMS voltage, between phase C and N, harmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_41_max | RMS voltage, between phase C and N, harmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_42_max | RMS voltage, between phase C and N, harmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_43_max | RMS voltage, between phase C and N, harmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_44_max | RMS voltage, between phase C and N, harmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_45_max | RMS voltage, between phase C and N, harmonic component #45, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CN_harm_46_max | RMS voltage, between phase C and N, harmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_47_max | RMS voltage, between phase C and N, harmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_48_max | RMS voltage, between phase C and N, harmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_49_max | RMS voltage, between phase C and N, harmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_harm_50_max | RMS voltage, between phase C and N, harmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_0_max | RMS voltage, between phase A and B, harmonic component DC, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_1_max | RMS voltage, between phase A and B, harmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_2_max | RMS voltage, between phase A and B, harmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_3_max | RMS voltage, between phase A and B, harmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_4_max | RMS voltage, between phase A and B, harmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_5_max | RMS voltage, between phase A and B, harmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_6_max | RMS voltage, between phase A and B, harmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_7_max | RMS voltage, between phase A and B, harmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_8_max | RMS voltage, between phase A and B, harmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_9_max | RMS voltage, between phase A and B, harmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_10_max | RMS voltage, between phase A and B, harmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_11_max | RMS voltage, between phase A and B, harmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_12_max | RMS voltage, between phase A and B, harmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_13_max | RMS voltage, between phase A and B, harmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_14_max | RMS voltage, between phase A and B, harmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_15_max | RMS voltage, between phase A and B, harmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_16_max | RMS voltage, between phase A and B, harmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_17_max | RMS voltage, between phase A and B, harmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_18_max | RMS voltage, between phase A and B, harmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_19_max | RMS voltage, between phase A and B, harmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_20_max | RMS voltage, between phase A and B, harmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_21_max | RMS voltage, between phase A and B, harmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_22_max | RMS voltage, between phase A and B, harmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_23_max | RMS voltage, between phase A and B, harmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_24_max | RMS voltage, between phase A and B, harmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_25_max | RMS voltage, between phase A and B, harmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_26_max | RMS voltage, between phase A and B, harmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_27_max | RMS voltage, between phase A and B, harmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_28_max | RMS voltage, between phase A and B, harmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_29_max | RMS voltage, between phase A and B, harmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_30_max | RMS voltage, between phase A and B, harmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_31_max | RMS voltage, between phase A and B, harmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_32_max | RMS voltage, between phase A and B, harmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_33_max | RMS voltage, between phase A and B, harmonic component #33, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AB_harm_34_max | RMS voltage, between phase A and B, harmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_35_max | RMS voltage, between phase A and B, harmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_36_max | RMS voltage, between phase A and B, harmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_37_max | RMS voltage, between phase A and B, harmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_38_max | RMS voltage, between phase A and B, harmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_39_max | RMS voltage, between phase A and B, harmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_40_max | RMS voltage, between phase A and B, harmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_41_max | RMS voltage, between phase A and B, harmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_42_max | RMS voltage, between phase A and B, harmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_43_max | RMS voltage, between phase A and B, harmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_44_max | RMS voltage, between phase A and B, harmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_45_max | RMS voltage, between phase A and B, harmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_46_max | RMS voltage, between phase A and B, harmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_47_max | RMS voltage, between phase A and B, harmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_48_max | RMS voltage, between phase A and B, harmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_49_max | RMS voltage, between phase A and B, harmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_harm_50_max | RMS voltage, between phase A and B, harmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_0_max | RMS voltage, between phase B and C, harmonic component DC, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_1_max | RMS voltage, between phase B and C, harmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_2_max | RMS voltage, between phase B and C, harmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_3_max | RMS voltage, between phase B and C, harmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_4_max | RMS voltage, between phase B and C, harmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_5_max | RMS voltage, between phase B and C, harmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_6_max | RMS voltage, between phase B and C, harmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_7_max | RMS voltage, between phase B and C, harmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_8_max | RMS voltage, between phase B and C, harmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_9_max | RMS voltage, between phase B and C, harmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_10_max | RMS voltage, between phase B and C, harmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_11_max | RMS voltage, between phase B and C, harmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_12_max | RMS voltage, between phase B and C, harmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_13_max | RMS voltage, between phase B and C, harmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_14_max | RMS voltage, between phase B and C, harmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_15_max | RMS voltage, between phase B and C, harmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_16_max | RMS voltage, between phase B and C, harmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_17_max | RMS voltage, between phase B and C, harmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_18_max | RMS voltage, between phase B and C, harmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_19_max | RMS voltage, between phase B and C, harmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_20_max | RMS voltage, between phase B and C, harmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_21_max | RMS voltage, between phase B and C, harmonic component #21, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_harm_22_max | RMS voltage, between phase B and C, harmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_23_max | RMS voltage, between phase B and C, harmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_24_max | RMS voltage, between phase B and C, harmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_25_max | RMS voltage, between phase B and C, harmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_26_max | RMS voltage, between phase B and C, harmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_27_max | RMS voltage, between phase B and C, harmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_28_max | RMS voltage, between phase B and C, harmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_29_max | RMS voltage, between phase B and C, harmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_30_max | RMS voltage, between phase B and C, harmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_31_max | RMS voltage, between phase B and C, harmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_32_max | RMS voltage, between phase B and C, harmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_33_max | RMS voltage, between phase B and C, harmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_34_max | RMS voltage, between phase B and C, harmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_35_max | RMS voltage, between phase B and C, harmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_36_max | RMS voltage, between phase B and C, harmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_37_max | RMS voltage, between phase B and C, harmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_38_max | RMS voltage, between phase B and C, harmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_39_max | RMS voltage, between phase B and C, harmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_40_max | RMS voltage, between phase B and C, harmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_41_max | RMS voltage, between phase B and C, harmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_42_max | RMS voltage, between phase B and C, harmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_43_max | RMS voltage, between phase B and C, harmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_44_max | RMS voltage, between phase B and C, harmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_45_max | RMS voltage, between phase B and C, harmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_46_max | RMS voltage, between phase B and C, harmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_47_max | RMS voltage, between phase B and C, harmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_48_max | RMS voltage, between phase B and C, harmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_49_max | RMS voltage, between phase B and C, harmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_harm_50_max | RMS voltage, between phase B and C, harmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_0_max | RMS voltage, between phase C and A, harmonic component DC, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_1_max | RMS voltage, between phase C and A, harmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_2_max | RMS voltage, between phase C and A, harmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_3_max | RMS voltage, between phase C and A, harmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_4_max | RMS voltage, between phase C and A, harmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_5_max | RMS voltage, between phase C and A, harmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_6_max | RMS voltage, between phase C and A, harmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_7_max | RMS voltage, between phase C and A, harmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_8_max | RMS voltage, between phase C and A, harmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_9_max | RMS voltage, between phase C and A, harmonic component #9, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_harm_10_max | RMS voltage, between phase C and A, harmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_11_max | RMS voltage, between phase C and A, harmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_12_max | RMS voltage, between phase C and A, harmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_13_max | RMS voltage, between phase C and A, harmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_14_max | RMS voltage, between phase C and A, harmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_15_max | RMS voltage, between phase C and A, harmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_16_max | RMS voltage, between phase C and A, harmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_17_max | RMS voltage, between phase C and A, harmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_18_max | RMS voltage, between phase C and A, harmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_19_max | RMS voltage, between phase C and A, harmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_20_max | RMS voltage, between phase C and A, harmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_21_max | RMS voltage, between phase C and A, harmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_22_max | RMS voltage, between phase C and A, harmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_23_max | RMS voltage, between phase C and A, harmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_24_max | RMS voltage, between phase C and A, harmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_25_max | RMS voltage, between phase C and A, harmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_26_max | RMS voltage, between phase C and A, harmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_27_max | RMS voltage, between phase C and A, harmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_28_max | RMS voltage, between phase C and A, harmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_29_max | RMS voltage, between phase C and A, harmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_30_max | RMS voltage, between phase C and A, harmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_31_max | RMS voltage, between phase C and A, harmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_32_max | RMS voltage, between phase C and A, harmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_33_max | RMS voltage, between phase C and A, harmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_34_max | RMS voltage, between phase C and A, harmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_35_max | RMS voltage, between phase C and A, harmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_36_max | RMS voltage, between phase C and A, harmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_37_max | RMS voltage, between phase C and A, harmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_38_max | RMS voltage, between phase C and A, harmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_39_max | RMS voltage, between phase C and A, harmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_40_max | RMS voltage, between phase C and A, harmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_41_max | RMS voltage, between phase C and A, harmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_42_max | RMS voltage, between phase C and A, harmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_43_max | RMS voltage, between phase C and A, harmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_44_max | RMS voltage, between phase C and A, harmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_45_max | RMS voltage, between phase C and A, harmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_46_max | RMS voltage, between phase C and A, harmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_47_max | RMS voltage, between phase C and A, harmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_48_max | RMS voltage, between phase C and A, harmonic component #48, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_harm_49_max | RMS voltage, between phase C and A, harmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_harm_50_max | RMS voltage, between phase C and A, harmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| a_AN_harm_0_max | RMS current, between phase A and N, harmonic component DC, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_1_max | RMS current, between phase A and N, harmonic component #1, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_2_max | RMS current, between phase A and N, harmonic component #2, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_3_max | RMS current, between phase A and N, harmonic component #3, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_4_max | RMS current, between phase A and N, harmonic component #4, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_5_max | RMS current, between phase A and N, harmonic component #5, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_6_max | RMS current, between phase A and N, harmonic component #6, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_7_max | RMS current, between phase A and N, harmonic component #7, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_8_max | RMS current, between phase A and N, harmonic component #8, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_9_max | RMS current, between phase A and N, harmonic component #9, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_10_max | RMS current, between phase A and N, harmonic component #10, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_11_max | RMS current, between phase A and N, harmonic component #11, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_12_max | RMS current, between phase A and N, harmonic component #12, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_13_max | RMS current, between phase A and N, harmonic component #13, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_14_max | RMS current, between phase A and N, harmonic component #14, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_15_max | RMS current, between phase A and N, harmonic component #15, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_16_max | RMS current, between phase A and N, harmonic component #16, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_17_max | RMS current, between phase A and N, harmonic component #17, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_18_max | RMS current, between phase A and N, harmonic component #18, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_19_max | RMS current, between phase A and N, harmonic component #19, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_20_max | RMS current, between phase A and N, harmonic component #20, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_21_max | RMS current, between phase A and N, harmonic component #21, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_22_max | RMS current, between phase A and N, harmonic component #22, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_23_max | RMS current, between phase A and N, harmonic component #23, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_24_max | RMS current, between phase A and N, harmonic component #24, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_25_max | RMS current, between phase A and N, harmonic component #25, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_26_max | RMS current, between phase A and N, harmonic component #26, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_27_max | RMS current, between phase A and N, harmonic component #27, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_28_max | RMS current, between phase A and N, harmonic component #28, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_29_max | RMS current, between phase A and N, harmonic component #29, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_30_max | RMS current, between phase A and N, harmonic component #30, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_31_max | RMS current, between phase A and N, harmonic component #31, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_32_max | RMS current, between phase A and N, harmonic component #32, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_33_max | RMS current, between phase A and N, harmonic component #33, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_34_max | RMS current, between phase A and N, harmonic component #34, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_35_max | RMS current, between phase A and N, harmonic component #35, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_36_max | RMS current, between phase A and N, harmonic component #36, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_AN_harm_37_max | RMS current, between phase A and N, harmonic component #37, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_38_max | RMS current, between phase A and N, harmonic component #38, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_39_max | RMS current, between phase A and N, harmonic component #39, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_40_max | RMS current, between phase A and N, harmonic component #40, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_41_max | RMS current, between phase A and N, harmonic component #41, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_42_max | RMS current, between phase A and N, harmonic component #42, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_43_max | RMS current, between phase A and N, harmonic component #43, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_44_max | RMS current, between phase A and N, harmonic component #44, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_45_max | RMS current, between phase A and N, harmonic component #45, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_46_max | RMS current, between phase A and N, harmonic component #46, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_47_max | RMS current, between phase A and N, harmonic component #47, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_48_max | RMS current, between phase A and N, harmonic component #48, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_49_max | RMS current, between phase A and N, harmonic component #49, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_harm_50_max | RMS current, between phase A and N, harmonic component #50, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_0_max | RMS current, between phase B and N, harmonic component DC, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_1_max | RMS current, between phase B and N, harmonic component #1, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_2_max | RMS current, between phase B and N, harmonic component #2, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_3_max | RMS current, between phase B and N, harmonic component #3, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_4_max | RMS current, between phase B and N, harmonic component #4, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_5_max | RMS current, between phase B and N, harmonic component #5, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_6_max | RMS current, between phase B and N, harmonic component #6, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_7_max | RMS current, between phase B and N, harmonic component #7, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_8_max | RMS current, between phase B and N, harmonic component #8, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_9_max | RMS current, between phase B and N, harmonic component #9, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_10_max | RMS current, between phase B and N, harmonic component #10, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_11_max | RMS current, between phase B and N, harmonic component #11, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_12_max | RMS current, between phase B and N, harmonic component #12, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_13_max | RMS current, between phase B and N, harmonic component #13, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_14_max | RMS current, between phase B and N, harmonic component #14, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_15_max | RMS current, between phase B and N, harmonic component #15, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_16_max | RMS current, between phase B and N, harmonic component #16, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_17_max | RMS current, between phase B and N, harmonic component #17, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_18_max | RMS current, between phase B and N, harmonic component #18, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_19_max | RMS current, between phase B and N, harmonic component #19, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_20_max | RMS current, between phase B and N, harmonic component #20, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_21_max | RMS current, between phase B and N, harmonic component #21, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_22_max | RMS current, between phase B and N, harmonic component #22, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_23_max | RMS current, between phase B and N, harmonic component #23, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_24_max | RMS current, between phase B and N, harmonic component #24, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_BN_harm_25_max | RMS current, between phase B and N, harmonic component #25, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_26_max | RMS current, between phase B and N, harmonic component #26, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_27_max | RMS current, between phase B and N, harmonic component #27, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_28_max | RMS current, between phase B and N, harmonic component #28, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_29_max | RMS current, between phase B and N, harmonic component #29, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_30_max | RMS current, between phase B and N, harmonic component #30, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_31_max | RMS current, between phase B and N, harmonic component #31, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_32_max | RMS current, between phase B and N, harmonic component #32, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_33_max | RMS current, between phase B and N, harmonic component #33, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_34_max | RMS current, between phase B and N, harmonic component #34, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_35_max | RMS current, between phase B and N, harmonic component #35, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_36_max | RMS current, between phase B and N, harmonic component #36, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_37_max | RMS current, between phase B and N, harmonic component #37, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_38_max | RMS current, between phase B and N, harmonic component #38, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_39_max | RMS current, between phase B and N, harmonic component #39, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_40_max | RMS current, between phase B and N, harmonic component #40, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_41_max | RMS current, between phase B and N, harmonic component #41, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_42_max | RMS current, between phase B and N, harmonic component #42, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_43_max | RMS current, between phase B and N, harmonic component #43, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_44_max | RMS current, between phase B and N, harmonic component #44, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_45_max | RMS current, between phase B and N, harmonic component #45, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_46_max | RMS current, between phase B and N, harmonic component #46, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_47_max | RMS current, between phase B and N, harmonic component #47, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_48_max | RMS current, between phase B and N, harmonic component #48, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_49_max | RMS current, between phase B and N, harmonic component #49, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_harm_50_max | RMS current, between phase B and N, harmonic component #50, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_0_max | RMS current, between phase C and N, harmonic component DC, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_1_max | RMS current, between phase C and N, harmonic component #1, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_2_max | RMS current, between phase C and N, harmonic component #2, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_3_max | RMS current, between phase C and N, harmonic component #3, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_4_max | RMS current, between phase C and N, harmonic component #4, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_5_max | RMS current, between phase C and N, harmonic component #5, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_6_max | RMS current, between phase C and N, harmonic component #6, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_7_max | RMS current, between phase C and N, harmonic component #7, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_8_max | RMS current, between phase C and N, harmonic component #8, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_9_max | RMS current, between phase C and N, harmonic component #9, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_10_max | RMS current, between phase C and N, harmonic component #10, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_11_max | RMS current, between phase C and N, harmonic component #11, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_12_max | RMS current, between phase C and N, harmonic component #12, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_CN_harm_13_max | RMS current, between phase C and N, harmonic component #13, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_14_max | RMS current, between phase C and N, harmonic component #14, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_15_max | RMS current, between phase C and N, harmonic component #15, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_16_max | RMS current, between phase C and N, harmonic component #16, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_17_max | RMS current, between phase C and N, harmonic component #17, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_18_max | RMS current, between phase C and N, harmonic component #18, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_19_max | RMS current, between phase C and N, harmonic component #19, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_20_max | RMS current, between phase C and N, harmonic component #20, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_21_max | RMS current, between phase C and N, harmonic component #21, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_22_max | RMS current, between phase C and N, harmonic component #22, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_23_max | RMS current, between phase C and N, harmonic component #23, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_24_max | RMS current, between phase C and N, harmonic component #24, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_25_max | RMS current, between phase C and N, harmonic component #25, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_26_max | RMS current, between phase C and N, harmonic component #26, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_27_max | RMS current, between phase C and N, harmonic component #27, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_28_max | RMS current, between phase C and N, harmonic component #28, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_29_max | RMS current, between phase C and N, harmonic component #29, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_30_max | RMS current, between phase C and N, harmonic component #30, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_31_max | RMS current, between phase C and N, harmonic component #31, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_32_max | RMS current, between phase C and N, harmonic component #32, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_33_max | RMS current, between phase C and N, harmonic component #33, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_34_max | RMS current, between phase C and N, harmonic component #34, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_35_max | RMS current, between phase C and N, harmonic component #35, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_36_max | RMS current, between phase C and N, harmonic component #36, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_37_max | RMS current, between phase C and N, harmonic component #37, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_38_max | RMS current, between phase C and N, harmonic component #38, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_39_max | RMS current, between phase C and N, harmonic component #39, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_40_max | RMS current, between phase C and N, harmonic component #40, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_41_max | RMS current, between phase C and N, harmonic component #41, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_42_max | RMS current, between phase C and N, harmonic component #42, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_43_max | RMS current, between phase C and N, harmonic component #43, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_44_max | RMS current, between phase C and N, harmonic component #44, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_45_max | RMS current, between phase C and N, harmonic component #45, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_46_max | RMS current, between phase C and N, harmonic component #46, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_47_max | RMS current, between phase C and N, harmonic component #47, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_48_max | RMS current, between phase C and N, harmonic component #48, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_49_max | RMS current, between phase C and N, harmonic component #49, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_harm_50_max | RMS current, between phase C and N, harmonic component #50, maximum of 10/12-cycle intervals | A | 600 |
| v_AN_THD_max | RMS voltage, between phase A and N, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_THD_max | RMS voltage, between phase B and N, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| v_CN_THD_max | RMS voltage, between phase C and N, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| v_AB_THD_max | RMS voltage, between phase A and B, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| v_BC_THD_max | RMS voltage, between phase B and C, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| v_CA_THD_max | RMS voltage, between phase C and A, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| a_AN_THD_max | RMS current, between phase A and N, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| a_BN_THD_max | RMS current, between phase B and N, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| a_CN_THD_max | RMS current, between phase C and N, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| a_AN_TDD_max | RMS current, between phase A and N, total demand distortion, maximum of 10/12-cycle intervals | % | 600 |
| a_BN_TDD_max | RMS current, between phase B and N, total demand distortion, maximum of 10/12-cycle intervals | % | 600 |
| a_CN_TDD_max | RMS current, between phase C and N, total demand distortion, maximum of 10/12-cycle intervals | % | 600 |
| v_zero_max | RMS voltage, zero sequence component, maximum of 10/12-cycle intervals | V | 600 |
| v_neg_max | RMS voltage, negative sequence component, maximum of 10/12-cycle intervals | V | 600 |
| freq_max | frequency, maximum of 10/12-cycle intervals | Hz | 600 |
| v_AN | RMS voltage, between A and NEUTRAL, instantaneous (10/12 cycle window) | V | not applicable |
| v_BN | RMS voltage, between B and NEUTRAL, instantaneous (10/12 cycle window) | V | not applicable |
| v_CN | RMS voltage, between C and NEUTRAL, instantaneous (10/12 cycle window) | V | not applicable |
| v_AB | RMS voltage, between A and B, instantaneous (10/12 cycle window) | V | not applicable |
| v_BC | RMS voltage, between B and C, instantaneous (10/12 cycle window) | V | not applicable |
| v_CA | RMS voltage, between C and A, instantaneous (10/12 cycle window) | V | not applicable |
| a_AN | RMS current, phase A, instantaneous (10/12 cycle window) | A | not applicable |
| a_BN | RMS current, phase B, instantaneous (10/12 cycle window) | A | not applicable |
| a_CN | RMS current, phase C, instantaneous (10/12 cycle window) | A | not applicable |
| p_AN | active power, between phase A and NEUTRAL, instantaneous (10/12 cycle window) | W | not applicable |
| p_BN | active power, between phase B and NEUTRAL, instantaneous (10/12 cycle window) | W | not applicable |
| p_CN | active power, between phase C and NEUTRAL, instantaneous (10/12 cycle window) | W | not applicable |
| p_TOTAL | active power, total, instaneous (10/12 cycle window) | W | not applicable |
| q_AN | reactive power, between phase A and NEUTRAL, instantaneous (10/12 cycle window) | VAr | not applicable |
| q_BN | reactive power, between phase B and NEUTRAL, instantaneous (10/12 cycle window) | VAr | not applicable |
| q_CN | reactive power, between phase C and NEUTRAL, instantaneous (10/12 cycle window) | VAr | not applicable |
| q_TOTAL | reactive power, total, instantaneous (10/12 cycle window) | VAr | not applicable |
| s_AN | apparent power, between phase A and NEUTRAL, instantaneous (10/12 cycle window) | VA | not applicable |
| s_BN | apparent power, between phase B and NEUTRAL, instantaneous (10/12 cycle window) | VA | not applicable |
| s_CN | apparent power, between phase C and NEUTRAL, instantaneous (10/12 cycle window) | VA | not applicable |
| s_TOTAL | apparent power, total, instaneous (10/12 cycle window) | VA | not applicable |
| freq | frequency, instantaneous value (moving averaging window) | Hz | not applicable |
| v_AN_iharm_0_min | RMS voltage, between phase A and N, interharmonic component #0, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_1_min | RMS voltage, between phase A and N, interharmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_2_min | RMS voltage, between phase A and N, interharmonic component #2, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AN_iharm_3_min | RMS voltage, between phase A and N, interharmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_4_min | RMS voltage, between phase A and N, interharmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_5_min | RMS voltage, between phase A and N, interharmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_6_min | RMS voltage, between phase A and N, interharmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_7_min | RMS voltage, between phase A and N, interharmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_8_min | RMS voltage, between phase A and N, interharmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_9_min | RMS voltage, between phase A and N, interharmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_10_min | RMS voltage, between phase A and N, interharmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_11_min | RMS voltage, between phase A and N, interharmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_12_min | RMS voltage, between phase A and N, interharmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_13_min | RMS voltage, between phase A and N, interharmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_14_min | RMS voltage, between phase A and N, interharmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_15_min | RMS voltage, between phase A and N, interharmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_16_min | RMS voltage, between phase A and N, interharmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_17_min | RMS voltage, between phase A and N, interharmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_18_min | RMS voltage, between phase A and N, interharmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_19_min | RMS voltage, between phase A and N, interharmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_20_min | RMS voltage, between phase A and N, interharmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_21_min | RMS voltage, between phase A and N, interharmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_22_min | RMS voltage, between phase A and N, interharmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_23_min | RMS voltage, between phase A and N, interharmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_24_min | RMS voltage, between phase A and N, interharmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_25_min | RMS voltage, between phase A and N, interharmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_26_min | RMS voltage, between phase A and N, interharmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_27_min | RMS voltage, between phase A and N, interharmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_28_min | RMS voltage, between phase A and N, interharmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_29_min | RMS voltage, between phase A and N, interharmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_30_min | RMS voltage, between phase A and N, interharmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_31_min | RMS voltage, between phase A and N, interharmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_32_min | RMS voltage, between phase A and N, interharmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_33_min | RMS voltage, between phase A and N, interharmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_34_min | RMS voltage, between phase A and N, interharmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_35_min | RMS voltage, between phase A and N, interharmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_36_min | RMS voltage, between phase A and N, interharmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_37_min | RMS voltage, between phase A and N, interharmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_38_min | RMS voltage, between phase A and N, interharmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_39_min | RMS voltage, between phase A and N, interharmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_40_min | RMS voltage, between phase A and N, interharmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_41_min | RMS voltage, between phase A and N, interharmonic component #41, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AN_iharm_42_min | RMS voltage, between phase A and N, interharmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_43_min | RMS voltage, between phase A and N, interharmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_44_min | RMS voltage, between phase A and N, interharmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_45_min | RMS voltage, between phase A and N, interharmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_46_min | RMS voltage, between phase A and N, interharmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_47_min | RMS voltage, between phase A and N, interharmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_48_min | RMS voltage, between phase A and N, interharmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_49_min | RMS voltage, between phase A and N, interharmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_50_min | RMS voltage, between phase A and N, interharmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_0_min | RMS voltage, between phase B and N, interharmonic component #0, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_1_min | RMS voltage, between phase B and N, interharmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_2_min | RMS voltage, between phase B and N, interharmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_3_min | RMS voltage, between phase B and N, interharmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_4_min | RMS voltage, between phase B and N, interharmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_5_min | RMS voltage, between phase B and N, interharmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_6_min | RMS voltage, between phase B and N, interharmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_7_min | RMS voltage, between phase B and N, interharmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_8_min | RMS voltage, between phase B and N, interharmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_9_min | RMS voltage, between phase B and N, interharmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_10_min | RMS voltage, between phase B and N, interharmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_11_min | RMS voltage, between phase B and N, interharmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_12_min | RMS voltage, between phase B and N, interharmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_13_min | RMS voltage, between phase B and N, interharmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_14_min | RMS voltage, between phase B and N, interharmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_15_min | RMS voltage, between phase B and N, interharmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_16_min | RMS voltage, between phase B and N, interharmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_17_min | RMS voltage, between phase B and N, interharmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_18_min | RMS voltage, between phase B and N, interharmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_19_min | RMS voltage, between phase B and N, interharmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_20_min | RMS voltage, between phase B and N, interharmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_21_min | RMS voltage, between phase B and N, interharmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_22_min | RMS voltage, between phase B and N, interharmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_23_min | RMS voltage, between phase B and N, interharmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_24_min | RMS voltage, between phase B and N, interharmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_25_min | RMS voltage, between phase B and N, interharmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_26_min | RMS voltage, between phase B and N, interharmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_27_min | RMS voltage, between phase B and N, interharmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_28_min | RMS voltage, between phase B and N, interharmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_29_min | RMS voltage, between phase B and N, interharmonic component #29, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_iharm_30_min | RMS voltage, between phase B and N, interharmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_31_min | RMS voltage, between phase B and N, interharmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_32_min | RMS voltage, between phase B and N, interharmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_33_min | RMS voltage, between phase B and N, interharmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_34_min | RMS voltage, between phase B and N, interharmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_35_min | RMS voltage, between phase B and N, interharmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_36_min | RMS voltage, between phase B and N, interharmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_37_min | RMS voltage, between phase B and N, interharmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_38_min | RMS voltage, between phase B and N, interharmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_39_min | RMS voltage, between phase B and N, interharmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_40_min | RMS voltage, between phase B and N, interharmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_41_min | RMS voltage, between phase B and N, interharmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_42_min | RMS voltage, between phase B and N, interharmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_43_min | RMS voltage, between phase B and N, interharmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_44_min | RMS voltage, between phase B and N, interharmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_45_min | RMS voltage, between phase B and N, interharmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_46_min | RMS voltage, between phase B and N, interharmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_47_min | RMS voltage, between phase B and N, interharmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_48_min | RMS voltage, between phase B and N, interharmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_49_min | RMS voltage, between phase B and N, interharmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_50_min | RMS voltage, between phase B and N, interharmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_0_min | RMS voltage, between phase C and N, interharmonic component #0, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_1_min | RMS voltage, between phase C and N, interharmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_2_min | RMS voltage, between phase C and N, interharmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_3_min | RMS voltage, between phase C and N, interharmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_4_min | RMS voltage, between phase C and N, interharmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_5_min | RMS voltage, between phase C and N, interharmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_6_min | RMS voltage, between phase C and N, interharmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_7_min | RMS voltage, between phase C and N, interharmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_8_min | RMS voltage, between phase C and N, interharmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_9_min | RMS voltage, between phase C and N, interharmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_10_min | RMS voltage, between phase C and N, interharmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_11_min | RMS voltage, between phase C and N, interharmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_12_min | RMS voltage, between phase C and N, interharmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_13_min | RMS voltage, between phase C and N, interharmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_14_min | RMS voltage, between phase C and N, interharmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_15_min | RMS voltage, between phase C and N, interharmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_16_min | RMS voltage, between phase C and N, interharmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_17_min | RMS voltage, between phase C and N, interharmonic component #17, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CN_iharm_18_min | RMS voltage, between phase C and N, interharmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_19_min | RMS voltage, between phase C and N, interharmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_20_min | RMS voltage, between phase C and N, interharmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_21_min | RMS voltage, between phase C and N, interharmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_22_min | RMS voltage, between phase C and N, interharmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_23_min | RMS voltage, between phase C and N, interharmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_24_min | RMS voltage, between phase C and N, interharmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_25_min | RMS voltage, between phase C and N, interharmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_26_min | RMS voltage, between phase C and N, interharmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_27_min | RMS voltage, between phase C and N, interharmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_28_min | RMS voltage, between phase C and N, interharmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_29_min | RMS voltage, between phase C and N, interharmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_30_min | RMS voltage, between phase C and N, interharmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_31_min | RMS voltage, between phase C and N, interharmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_32_min | RMS voltage, between phase C and N, interharmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_33_min | RMS voltage, between phase C and N, interharmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_34_min | RMS voltage, between phase C and N, interharmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_35_min | RMS voltage, between phase C and N, interharmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_36_min | RMS voltage, between phase C and N, interharmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_37_min | RMS voltage, between phase C and N, interharmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_38_min | RMS voltage, between phase C and N, interharmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_39_min | RMS voltage, between phase C and N, interharmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_40_min | RMS voltage, between phase C and N, interharmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_41_min | RMS voltage, between phase C and N, interharmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_42_min | RMS voltage, between phase C and N, interharmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_43_min | RMS voltage, between phase C and N, interharmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_44_min | RMS voltage, between phase C and N, interharmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_45_min | RMS voltage, between phase C and N, interharmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_46_min | RMS voltage, between phase C and N, interharmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_47_min | RMS voltage, between phase C and N, interharmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_48_min | RMS voltage, between phase C and N, interharmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_49_min | RMS voltage, between phase C and N, interharmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_50_min | RMS voltage, between phase C and N, interharmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_0_min | RMS voltage, between phase A and B, interharmonic component #0, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_1_min | RMS voltage, between phase A and B, interharmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_2_min | RMS voltage, between phase A and B, interharmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_3_min | RMS voltage, between phase A and B, interharmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_4_min | RMS voltage, between phase A and B, interharmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_5_min | RMS voltage, between phase A and B, interharmonic component #5, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AB_iharm_6_min | RMS voltage, between phase A and B, interharmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_7_min | RMS voltage, between phase A and B, interharmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_8_min | RMS voltage, between phase A and B, interharmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_9_min | RMS voltage, between phase A and B, interharmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_10_min | RMS voltage, between phase A and B, interharmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_11_min | RMS voltage, between phase A and B, interharmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_12_min | RMS voltage, between phase A and B, interharmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_13_min | RMS voltage, between phase A and B, interharmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_14_min | RMS voltage, between phase A and B, interharmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_15_min | RMS voltage, between phase A and B, interharmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_16_min | RMS voltage, between phase A and B, interharmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_17_min | RMS voltage, between phase A and B, interharmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_18_min | RMS voltage, between phase A and B, interharmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_19_min | RMS voltage, between phase A and B, interharmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_20_min | RMS voltage, between phase A and B, interharmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_21_min | RMS voltage, between phase A and B, interharmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_22_min | RMS voltage, between phase A and B, interharmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_23_min | RMS voltage, between phase A and B, interharmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_24_min | RMS voltage, between phase A and B, interharmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_25_min | RMS voltage, between phase A and B, interharmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_26_min | RMS voltage, between phase A and B, interharmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_27_min | RMS voltage, between phase A and B, interharmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_28_min | RMS voltage, between phase A and B, interharmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_29_min | RMS voltage, between phase A and B, interharmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_30_min | RMS voltage, between phase A and B, interharmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_31_min | RMS voltage, between phase A and B, interharmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_32_min | RMS voltage, between phase A and B, interharmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_33_min | RMS voltage, between phase A and B, interharmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_34_min | RMS voltage, between phase A and B, interharmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_35_min | RMS voltage, between phase A and B, interharmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_36_min | RMS voltage, between phase A and B, interharmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_37_min | RMS voltage, between phase A and B, interharmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_38_min | RMS voltage, between phase A and B, interharmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_39_min | RMS voltage, between phase A and B, interharmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_40_min | RMS voltage, between phase A and B, interharmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_41_min | RMS voltage, between phase A and B, interharmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_42_min | RMS voltage, between phase A and B, interharmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_43_min | RMS voltage, between phase A and B, interharmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_44_min | RMS voltage, between phase A and B, interharmonic component #44, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AB_iharm_45_min | RMS voltage, between phase A and B, interharmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_46_min | RMS voltage, between phase A and B, interharmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_47_min | RMS voltage, between phase A and B, interharmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_48_min | RMS voltage, between phase A and B, interharmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_49_min | RMS voltage, between phase A and B, interharmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_50_min | RMS voltage, between phase A and B, interharmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_0_min | RMS voltage, between phase B and C, interharmonic component #0, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_1_min | RMS voltage, between phase B and C, interharmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_2_min | RMS voltage, between phase B and C, interharmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_3_min | RMS voltage, between phase B and C, interharmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_4_min | RMS voltage, between phase B and C, interharmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_5_min | RMS voltage, between phase B and C, interharmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_6_min | RMS voltage, between phase B and C, interharmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_7_min | RMS voltage, between phase B and C, interharmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_8_min | RMS voltage, between phase B and C, interharmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_9_min | RMS voltage, between phase B and C, interharmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_10_min | RMS voltage, between phase B and C, interharmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_11_min | RMS voltage, between phase B and C, interharmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_12_min | RMS voltage, between phase B and C, interharmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_13_min | RMS voltage, between phase B and C, interharmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_14_min | RMS voltage, between phase B and C, interharmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_15_min | RMS voltage, between phase B and C, interharmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_16_min | RMS voltage, between phase B and C, interharmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_17_min | RMS voltage, between phase B and C, interharmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_18_min | RMS voltage, between phase B and C, interharmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_19_min | RMS voltage, between phase B and C, interharmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_20_min | RMS voltage, between phase B and C, interharmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_21_min | RMS voltage, between phase B and C, interharmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_22_min | RMS voltage, between phase B and C, interharmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_23_min | RMS voltage, between phase B and C, interharmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_24_min | RMS voltage, between phase B and C, interharmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_25_min | RMS voltage, between phase B and C, interharmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_26_min | RMS voltage, between phase B and C, interharmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_27_min | RMS voltage, between phase B and C, interharmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_28_min | RMS voltage, between phase B and C, interharmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_29_min | RMS voltage, between phase B and C, interharmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_30_min | RMS voltage, between phase B and C, interharmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_31_min | RMS voltage, between phase B and C, interharmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_32_min | RMS voltage, between phase B and C, interharmonic component #32, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_iharm_33_min | RMS voltage, between phase B and C, interharmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_34_min | RMS voltage, between phase B and C, interharmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_35_min | RMS voltage, between phase B and C, interharmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_36_min | RMS voltage, between phase B and C, interharmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_37_min | RMS voltage, between phase B and C, interharmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_38_min | RMS voltage, between phase B and C, interharmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_39_min | RMS voltage, between phase B and C, interharmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_40_min | RMS voltage, between phase B and C, interharmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_41_min | RMS voltage, between phase B and C, interharmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_42_min | RMS voltage, between phase B and C, interharmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_43_min | RMS voltage, between phase B and C, interharmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_44_min | RMS voltage, between phase B and C, interharmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_45_min | RMS voltage, between phase B and C, interharmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_46_min | RMS voltage, between phase B and C, interharmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_47_min | RMS voltage, between phase B and C, interharmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_48_min | RMS voltage, between phase B and C, interharmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_49_min | RMS voltage, between phase B and C, interharmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_50_min | RMS voltage, between phase B and C, interharmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_0_min | RMS voltage, between phase C and A, interharmonic component #0, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_1_min | RMS voltage, between phase C and A, interharmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_2_min | RMS voltage, between phase C and A, interharmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_3_min | RMS voltage, between phase C and A, interharmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_4_min | RMS voltage, between phase C and A, interharmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_5_min | RMS voltage, between phase C and A, interharmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_6_min | RMS voltage, between phase C and A, interharmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_7_min | RMS voltage, between phase C and A, interharmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_8_min | RMS voltage, between phase C and A, interharmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_9_min | RMS voltage, between phase C and A, interharmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_10_min | RMS voltage, between phase C and A, interharmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_11_min | RMS voltage, between phase C and A, interharmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_12_min | RMS voltage, between phase C and A, interharmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_13_min | RMS voltage, between phase C and A, interharmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_14_min | RMS voltage, between phase C and A, interharmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_15_min | RMS voltage, between phase C and A, interharmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_16_min | RMS voltage, between phase C and A, interharmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_17_min | RMS voltage, between phase C and A, interharmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_18_min | RMS voltage, between phase C and A, interharmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_19_min | RMS voltage, between phase C and A, interharmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_20_min | RMS voltage, between phase C and A, interharmonic component #20, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_iharm_21_min | RMS voltage, between phase C and A, interharmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_22_min | RMS voltage, between phase C and A, interharmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_23_min | RMS voltage, between phase C and A, interharmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_24_min | RMS voltage, between phase C and A, interharmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_25_min | RMS voltage, between phase C and A, interharmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_26_min | RMS voltage, between phase C and A, interharmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_27_min | RMS voltage, between phase C and A, interharmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_28_min | RMS voltage, between phase C and A, interharmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_29_min | RMS voltage, between phase C and A, interharmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_30_min | RMS voltage, between phase C and A, interharmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_31_min | RMS voltage, between phase C and A, interharmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_32_min | RMS voltage, between phase C and A, interharmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_33_min | RMS voltage, between phase C and A, interharmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_34_min | RMS voltage, between phase C and A, interharmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_35_min | RMS voltage, between phase C and A, interharmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_36_min | RMS voltage, between phase C and A, interharmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_37_min | RMS voltage, between phase C and A, interharmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_38_min | RMS voltage, between phase C and A, interharmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_39_min | RMS voltage, between phase C and A, interharmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_40_min | RMS voltage, between phase C and A, interharmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_41_min | RMS voltage, between phase C and A, interharmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_42_min | RMS voltage, between phase C and A, interharmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_43_min | RMS voltage, between phase C and A, interharmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_44_min | RMS voltage, between phase C and A, interharmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_45_min | RMS voltage, between phase C and A, interharmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_46_min | RMS voltage, between phase C and A, interharmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_47_min | RMS voltage, between phase C and A, interharmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_48_min | RMS voltage, between phase C and A, interharmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_49_min | RMS voltage, between phase C and A, interharmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_50_min | RMS voltage, between phase C and A, interharmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| a_AN_iharm_0_min | RMS current, between phase A and N, interharmonic component #0, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_1_min | RMS current, between phase A and N, interharmonic component #1, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_2_min | RMS current, between phase A and N, interharmonic component #2, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_3_min | RMS current, between phase A and N, interharmonic component #3, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_4_min | RMS current, between phase A and N, interharmonic component #4, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_5_min | RMS current, between phase A and N, interharmonic component #5, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_6_min | RMS current, between phase A and N, interharmonic component #6, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_7_min | RMS current, between phase A and N, interharmonic component #7, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_8_min | RMS current, between phase A and N, interharmonic component #8, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_AN_iharm_9_min | RMS current, between phase A and N, interharmonic component #9, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_10_min | RMS current, between phase A and N, interharmonic component #10, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_11_min | RMS current, between phase A and N, interharmonic component #11, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_12_min | RMS current, between phase A and N, interharmonic component #12, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_13_min | RMS current, between phase A and N, interharmonic component #13, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_14_min | RMS current, between phase A and N, interharmonic component #14, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_15_min | RMS current, between phase A and N, interharmonic component #15, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_16_min | RMS current, between phase A and N, interharmonic component #16, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_17_min | RMS current, between phase A and N, interharmonic component #17, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_18_min | RMS current, between phase A and N, interharmonic component #18, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_19_min | RMS current, between phase A and N, interharmonic component #19, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_20_min | RMS current, between phase A and N, interharmonic component #20, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_21_min | RMS current, between phase A and N, interharmonic component #21, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_22_min | RMS current, between phase A and N, interharmonic component #22, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_23_min | RMS current, between phase A and N, interharmonic component #23, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_24_min | RMS current, between phase A and N, interharmonic component #24, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_25_min | RMS current, between phase A and N, interharmonic component #25, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_26_min | RMS current, between phase A and N, interharmonic component #26, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_27_min | RMS current, between phase A and N, interharmonic component #27, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_28_min | RMS current, between phase A and N, interharmonic component #28, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_29_min | RMS current, between phase A and N, interharmonic component #29, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_30_min | RMS current, between phase A and N, interharmonic component #30, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_31_min | RMS current, between phase A and N, interharmonic component #31, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_32_min | RMS current, between phase A and N, interharmonic component #32, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_33_min | RMS current, between phase A and N, interharmonic component #33, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_34_min | RMS current, between phase A and N, interharmonic component #34, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_35_min | RMS current, between phase A and N, interharmonic component #35, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_36_min | RMS current, between phase A and N, interharmonic component #36, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_37_min | RMS current, between phase A and N, interharmonic component #37, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_38_min | RMS current, between phase A and N, interharmonic component #38, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_39_min | RMS current, between phase A and N, interharmonic component #39, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_40_min | RMS current, between phase A and N, interharmonic component #40, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_41_min | RMS current, between phase A and N, interharmonic component #41, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_42_min | RMS current, between phase A and N, interharmonic component #42, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_43_min | RMS current, between phase A and N, interharmonic component #43, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_44_min | RMS current, between phase A and N, interharmonic component #44, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_45_min | RMS current, between phase A and N, interharmonic component #45, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_46_min | RMS current, between phase A and N, interharmonic component #46, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_47_min | RMS current, between phase A and N, interharmonic component #47, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_AN_iharm_48_min | RMS current, between phase A and N, interharmonic component #48, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_49_min | RMS current, between phase A and N, interharmonic component #49, minimum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_50_min | RMS current, between phase A and N, interharmonic component #50, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_0_min | RMS current, between phase B and N, interharmonic component #0, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_1_min | RMS current, between phase B and N, interharmonic component #1, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_2_min | RMS current, between phase B and N, interharmonic component #2, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_3_min | RMS current, between phase B and N, interharmonic component #3, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_4_min | RMS current, between phase B and N, interharmonic component #4, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_5_min | RMS current, between phase B and N, interharmonic component #5, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_6_min | RMS current, between phase B and N, interharmonic component #6, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_7_min | RMS current, between phase B and N, interharmonic component #7, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_8_min | RMS current, between phase B and N, interharmonic component #8, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_9_min | RMS current, between phase B and N, interharmonic component #9, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_10_min | RMS current, between phase B and N, interharmonic component #10, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_11_min | RMS current, between phase B and N, interharmonic component #11, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_12_min | RMS current, between phase B and N, interharmonic component #12, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_13_min | RMS current, between phase B and N, interharmonic component #13, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_14_min | RMS current, between phase B and N, interharmonic component #14, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_15_min | RMS current, between phase B and N, interharmonic component #15, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_16_min | RMS current, between phase B and N, interharmonic component #16, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_17_min | RMS current, between phase B and N, interharmonic component #17, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_18_min | RMS current, between phase B and N, interharmonic component #18, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_19_min | RMS current, between phase B and N, interharmonic component #19, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_20_min | RMS current, between phase B and N, interharmonic component #20, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_21_min | RMS current, between phase B and N, interharmonic component #21, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_22_min | RMS current, between phase B and N, interharmonic component #22, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_23_min | RMS current, between phase B and N, interharmonic component #23, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_24_min | RMS current, between phase B and N, interharmonic component #24, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_25_min | RMS current, between phase B and N, interharmonic component #25, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_26_min | RMS current, between phase B and N, interharmonic component #26, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_27_min | RMS current, between phase B and N, interharmonic component #27, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_28_min | RMS current, between phase B and N, interharmonic component #28, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_29_min | RMS current, between phase B and N, interharmonic component #29, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_30_min | RMS current, between phase B and N, interharmonic component #30, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_31_min | RMS current, between phase B and N, interharmonic component #31, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_32_min | RMS current, between phase B and N, interharmonic component #32, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_33_min | RMS current, between phase B and N, interharmonic component #33, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_34_min | RMS current, between phase B and N, interharmonic component #34, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_35_min | RMS current, between phase B and N, interharmonic component #35, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_BN_iharm_36_min | RMS current, between phase B and N, interharmonic component #36, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_37_min | RMS current, between phase B and N, interharmonic component #37, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_38_min | RMS current, between phase B and N, interharmonic component #38, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_39_min | RMS current, between phase B and N, interharmonic component #39, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_40_min | RMS current, between phase B and N, interharmonic component #40, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_41_min | RMS current, between phase B and N, interharmonic component #41, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_42_min | RMS current, between phase B and N, interharmonic component #42, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_43_min | RMS current, between phase B and N, interharmonic component #43, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_44_min | RMS current, between phase B and N, interharmonic component #44, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_45_min | RMS current, between phase B and N, interharmonic component #45, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_46_min | RMS current, between phase B and N, interharmonic component #46, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_47_min | RMS current, between phase B and N, interharmonic component #47, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_48_min | RMS current, between phase B and N, interharmonic component #48, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_49_min | RMS current, between phase B and N, interharmonic component #49, minimum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_50_min | RMS current, between phase B and N, interharmonic component #50, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_0_min | RMS current, between phase C and N, interharmonic component #0, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_1_min | RMS current, between phase C and N, interharmonic component #1, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_2_min | RMS current, between phase C and N, interharmonic component #2, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_3_min | RMS current, between phase C and N, interharmonic component #3, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_4_min | RMS current, between phase C and N, interharmonic component #4, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_5_min | RMS current, between phase C and N, interharmonic component #5, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_6_min | RMS current, between phase C and N, interharmonic component #6, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_7_min | RMS current, between phase C and N, interharmonic component #7, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_8_min | RMS current, between phase C and N, interharmonic component #8, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_9_min | RMS current, between phase C and N, interharmonic component #9, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_10_min | RMS current, between phase C and N, interharmonic component #10, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_11_min | RMS current, between phase C and N, interharmonic component #11, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_12_min | RMS current, between phase C and N, interharmonic component #12, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_13_min | RMS current, between phase C and N, interharmonic component #13, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_14_min | RMS current, between phase C and N, interharmonic component #14, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_15_min | RMS current, between phase C and N, interharmonic component #15, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_16_min | RMS current, between phase C and N, interharmonic component #16, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_17_min | RMS current, between phase C and N, interharmonic component #17, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_18_min | RMS current, between phase C and N, interharmonic component #18, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_19_min | RMS current, between phase C and N, interharmonic component #19, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_20_min | RMS current, between phase C and N, interharmonic component #20, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_21_min | RMS current, between phase C and N, interharmonic component #21, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_22_min | RMS current, between phase C and N, interharmonic component #22, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_23_min | RMS current, between phase C and N, interharmonic component #23, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_CN_iharm_24_min | RMS current, between phase C and N, interharmonic component #24, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_25_min | RMS current, between phase C and N, interharmonic component #25, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_26_min | RMS current, between phase C and N, interharmonic component #26, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_27_min | RMS current, between phase C and N, interharmonic component #27, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_28_min | RMS current, between phase C and N, interharmonic component #28, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_29_min | RMS current, between phase C and N, interharmonic component #29, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_30_min | RMS current, between phase C and N, interharmonic component #30, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_31_min | RMS current, between phase C and N, interharmonic component #31, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_32_min | RMS current, between phase C and N, interharmonic component #32, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_33_min | RMS current, between phase C and N, interharmonic component #33, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_34_min | RMS current, between phase C and N, interharmonic component #34, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_35_min | RMS current, between phase C and N, interharmonic component #35, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_36_min | RMS current, between phase C and N, interharmonic component #36, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_37_min | RMS current, between phase C and N, interharmonic component #37, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_38_min | RMS current, between phase C and N, interharmonic component #38, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_39_min | RMS current, between phase C and N, interharmonic component #39, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_40_min | RMS current, between phase C and N, interharmonic component #40, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_41_min | RMS current, between phase C and N, interharmonic component #41, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_42_min | RMS current, between phase C and N, interharmonic component #42, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_43_min | RMS current, between phase C and N, interharmonic component #43, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_44_min | RMS current, between phase C and N, interharmonic component #44, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_45_min | RMS current, between phase C and N, interharmonic component #45, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_46_min | RMS current, between phase C and N, interharmonic component #46, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_47_min | RMS current, between phase C and N, interharmonic component #47, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_48_min | RMS current, between phase C and N, interharmonic component #48, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_49_min | RMS current, between phase C and N, interharmonic component #49, minimum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_50_min | RMS current, between phase C and N, interharmonic component #50, minimum of 10/12-cycle intervals | A | 600 |
| v_AN_iharm_0_avg | RMS voltage, between phase A and N, interharmonic component #0, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_1_avg | RMS voltage, between phase A and N, interharmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_2_avg | RMS voltage, between phase A and N, interharmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_3_avg | RMS voltage, between phase A and N, interharmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_4_avg | RMS voltage, between phase A and N, interharmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_5_avg | RMS voltage, between phase A and N, interharmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_6_avg | RMS voltage, between phase A and N, interharmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_7_avg | RMS voltage, between phase A and N, interharmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_8_avg | RMS voltage, between phase A and N, interharmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_9_avg | RMS voltage, between phase A and N, interharmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_10_avg | RMS voltage, between phase A and N, interharmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_11_avg | RMS voltage, between phase A and N, interharmonic component #11, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AN_iharm_12_avg | RMS voltage, between phase A and N, interharmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_13_avg | RMS voltage, between phase A and N, interharmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_14_avg | RMS voltage, between phase A and N, interharmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_15_avg | RMS voltage, between phase A and N, interharmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_16_avg | RMS voltage, between phase A and N, interharmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_17_avg | RMS voltage, between phase A and N, interharmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_18_avg | RMS voltage, between phase A and N, interharmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_19_avg | RMS voltage, between phase A and N, interharmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_20_avg | RMS voltage, between phase A and N, interharmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_21_avg | RMS voltage, between phase A and N, interharmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_22_avg | RMS voltage, between phase A and N, interharmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_23_avg | RMS voltage, between phase A and N, interharmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_24_avg | RMS voltage, between phase A and N, interharmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_25_avg | RMS voltage, between phase A and N, interharmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_26_avg | RMS voltage, between phase A and N, interharmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_27_avg | RMS voltage, between phase A and N, interharmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_28_avg | RMS voltage, between phase A and N, interharmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_29_avg | RMS voltage, between phase A and N, interharmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_30_avg | RMS voltage, between phase A and N, interharmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_31_avg | RMS voltage, between phase A and N, interharmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_32_avg | RMS voltage, between phase A and N, interharmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_33_avg | RMS voltage, between phase A and N, interharmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_34_avg | RMS voltage, between phase A and N, interharmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_35_avg | RMS voltage, between phase A and N, interharmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_36_avg | RMS voltage, between phase A and N, interharmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_37_avg | RMS voltage, between phase A and N, interharmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_38_avg | RMS voltage, between phase A and N, interharmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_39_avg | RMS voltage, between phase A and N, interharmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_40_avg | RMS voltage, between phase A and N, interharmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_41_avg | RMS voltage, between phase A and N, interharmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_42_avg | RMS voltage, between phase A and N, interharmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_43_avg | RMS voltage, between phase A and N, interharmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_44_avg | RMS voltage, between phase A and N, interharmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_45_avg | RMS voltage, between phase A and N, interharmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_46_avg | RMS voltage, between phase A and N, interharmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_47_avg | RMS voltage, between phase A and N, interharmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_48_avg | RMS voltage, between phase A and N, interharmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_49_avg | RMS voltage, between phase A and N, interharmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_50_avg | RMS voltage, between phase A and N, interharmonic component #50, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_iharm_0_avg | RMS voltage, between phase B and N, interharmonic component #0, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_1_avg | RMS voltage, between phase B and N, interharmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_2_avg | RMS voltage, between phase B and N, interharmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_3_avg | RMS voltage, between phase B and N, interharmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_4_avg | RMS voltage, between phase B and N, interharmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_5_avg | RMS voltage, between phase B and N, interharmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_6_avg | RMS voltage, between phase B and N, interharmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_7_avg | RMS voltage, between phase B and N, interharmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_8_avg | RMS voltage, between phase B and N, interharmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_9_avg | RMS voltage, between phase B and N, interharmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_10_avg | RMS voltage, between phase B and N, interharmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_11_avg | RMS voltage, between phase B and N, interharmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_12_avg | RMS voltage, between phase B and N, interharmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_13_avg | RMS voltage, between phase B and N, interharmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_14_avg | RMS voltage, between phase B and N, interharmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_15_avg | RMS voltage, between phase B and N, interharmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_16_avg | RMS voltage, between phase B and N, interharmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_17_avg | RMS voltage, between phase B and N, interharmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_18_avg | RMS voltage, between phase B and N, interharmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_19_avg | RMS voltage, between phase B and N, interharmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_20_avg | RMS voltage, between phase B and N, interharmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_21_avg | RMS voltage, between phase B and N, interharmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_22_avg | RMS voltage, between phase B and N, interharmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_23_avg | RMS voltage, between phase B and N, interharmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_24_avg | RMS voltage, between phase B and N, interharmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_25_avg | RMS voltage, between phase B and N, interharmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_26_avg | RMS voltage, between phase B and N, interharmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_27_avg | RMS voltage, between phase B and N, interharmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_28_avg | RMS voltage, between phase B and N, interharmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_29_avg | RMS voltage, between phase B and N, interharmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_30_avg | RMS voltage, between phase B and N, interharmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_31_avg | RMS voltage, between phase B and N, interharmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_32_avg | RMS voltage, between phase B and N, interharmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_33_avg | RMS voltage, between phase B and N, interharmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_34_avg | RMS voltage, between phase B and N, interharmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_35_avg | RMS voltage, between phase B and N, interharmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_36_avg | RMS voltage, between phase B and N, interharmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_37_avg | RMS voltage, between phase B and N, interharmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_38_avg | RMS voltage, between phase B and N, interharmonic component #38, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_iharm_39_avg | RMS voltage, between phase B and N, interharmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_40_avg | RMS voltage, between phase B and N, interharmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_41_avg | RMS voltage, between phase B and N, interharmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_42_avg | RMS voltage, between phase B and N, interharmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_43_avg | RMS voltage, between phase B and N, interharmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_44_avg | RMS voltage, between phase B and N, interharmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_45_avg | RMS voltage, between phase B and N, interharmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_46_avg | RMS voltage, between phase B and N, interharmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_47_avg | RMS voltage, between phase B and N, interharmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_48_avg | RMS voltage, between phase B and N, interharmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_49_avg | RMS voltage, between phase B and N, interharmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_50_avg | RMS voltage, between phase B and N, interharmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_0_avg | RMS voltage, between phase C and N, interharmonic component #0, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_1_avg | RMS voltage, between phase C and N, interharmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_2_avg | RMS voltage, between phase C and N, interharmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_3_avg | RMS voltage, between phase C and N, interharmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_4_avg | RMS voltage, between phase C and N, interharmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_5_avg | RMS voltage, between phase C and N, interharmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_6_avg | RMS voltage, between phase C and N, interharmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_7_avg | RMS voltage, between phase C and N, interharmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_8_avg | RMS voltage, between phase C and N, interharmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_9_avg | RMS voltage, between phase C and N, interharmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_10_avg | RMS voltage, between phase C and N, interharmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_11_avg | RMS voltage, between phase C and N, interharmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_12_avg | RMS voltage, between phase C and N, interharmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_13_avg | RMS voltage, between phase C and N, interharmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_14_avg | RMS voltage, between phase C and N, interharmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_15_avg | RMS voltage, between phase C and N, interharmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_16_avg | RMS voltage, between phase C and N, interharmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_17_avg | RMS voltage, between phase C and N, interharmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_18_avg | RMS voltage, between phase C and N, interharmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_19_avg | RMS voltage, between phase C and N, interharmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_20_avg | RMS voltage, between phase C and N, interharmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_21_avg | RMS voltage, between phase C and N, interharmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_22_avg | RMS voltage, between phase C and N, interharmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_23_avg | RMS voltage, between phase C and N, interharmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_24_avg | RMS voltage, between phase C and N, interharmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_25_avg | RMS voltage, between phase C and N, interharmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_26_avg | RMS voltage, between phase C and N, interharmonic component #26, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CN_iharm_27_avg | RMS voltage, between phase C and N, interharmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_28_avg | RMS voltage, between phase C and N, interharmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_29_avg | RMS voltage, between phase C and N, interharmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_30_avg | RMS voltage, between phase C and N, interharmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_31_avg | RMS voltage, between phase C and N, interharmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_32_avg | RMS voltage, between phase C and N, interharmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_33_avg | RMS voltage, between phase C and N, interharmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_34_avg | RMS voltage, between phase C and N, interharmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_35_avg | RMS voltage, between phase C and N, interharmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_36_avg | RMS voltage, between phase C and N, interharmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_37_avg | RMS voltage, between phase C and N, interharmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_38_avg | RMS voltage, between phase C and N, interharmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_39_avg | RMS voltage, between phase C and N, interharmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_40_avg | RMS voltage, between phase C and N, interharmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_41_avg | RMS voltage, between phase C and N, interharmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_42_avg | RMS voltage, between phase C and N, interharmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_43_avg | RMS voltage, between phase C and N, interharmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_44_avg | RMS voltage, between phase C and N, interharmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_45_avg | RMS voltage, between phase C and N, interharmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_46_avg | RMS voltage, between phase C and N, interharmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_47_avg | RMS voltage, between phase C and N, interharmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_48_avg | RMS voltage, between phase C and N, interharmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_49_avg | RMS voltage, between phase C and N, interharmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_50_avg | RMS voltage, between phase C and N, interharmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_0_avg | RMS voltage, between phase A and B, interharmonic component #0, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_1_avg | RMS voltage, between phase A and B, interharmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_2_avg | RMS voltage, between phase A and B, interharmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_3_avg | RMS voltage, between phase A and B, interharmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_4_avg | RMS voltage, between phase A and B, interharmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_5_avg | RMS voltage, between phase A and B, interharmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_6_avg | RMS voltage, between phase A and B, interharmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_7_avg | RMS voltage, between phase A and B, interharmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_8_avg | RMS voltage, between phase A and B, interharmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_9_avg | RMS voltage, between phase A and B, interharmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_10_avg | RMS voltage, between phase A and B, interharmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_11_avg | RMS voltage, between phase A and B, interharmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_12_avg | RMS voltage, between phase A and B, interharmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_13_avg | RMS voltage, between phase A and B, interharmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_14_avg | RMS voltage, between phase A and B, interharmonic component #14, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AB_iharm_15_avg | RMS voltage, between phase A and B, interharmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_16_avg | RMS voltage, between phase A and B, interharmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_17_avg | RMS voltage, between phase A and B, interharmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_18_avg | RMS voltage, between phase A and B, interharmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_19_avg | RMS voltage, between phase A and B, interharmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_20_avg | RMS voltage, between phase A and B, interharmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_21_avg | RMS voltage, between phase A and B, interharmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_22_avg | RMS voltage, between phase A and B, interharmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_23_avg | RMS voltage, between phase A and B, interharmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_24_avg | RMS voltage, between phase A and B, interharmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_25_avg | RMS voltage, between phase A and B, interharmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_26_avg | RMS voltage, between phase A and B, interharmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_27_avg | RMS voltage, between phase A and B, interharmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_28_avg | RMS voltage, between phase A and B, interharmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_29_avg | RMS voltage, between phase A and B, interharmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_30_avg | RMS voltage, between phase A and B, interharmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_31_avg | RMS voltage, between phase A and B, interharmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_32_avg | RMS voltage, between phase A and B, interharmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_33_avg | RMS voltage, between phase A and B, interharmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_34_avg | RMS voltage, between phase A and B, interharmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_35_avg | RMS voltage, between phase A and B, interharmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_36_avg | RMS voltage, between phase A and B, interharmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_37_avg | RMS voltage, between phase A and B, interharmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_38_avg | RMS voltage, between phase A and B, interharmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_39_avg | RMS voltage, between phase A and B, interharmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_40_avg | RMS voltage, between phase A and B, interharmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_41_avg | RMS voltage, between phase A and B, interharmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_42_avg | RMS voltage, between phase A and B, interharmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_43_avg | RMS voltage, between phase A and B, interharmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_44_avg | RMS voltage, between phase A and B, interharmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_45_avg | RMS voltage, between phase A and B, interharmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_46_avg | RMS voltage, between phase A and B, interharmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_47_avg | RMS voltage, between phase A and B, interharmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_48_avg | RMS voltage, between phase A and B, interharmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_49_avg | RMS voltage, between phase A and B, interharmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_50_avg | RMS voltage, between phase A and B, interharmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_0_avg | RMS voltage, between phase B and C, interharmonic component #0, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_1_avg | RMS voltage, between phase B and C, interharmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_2_avg | RMS voltage, between phase B and C, interharmonic component #2, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_iharm_3_avg | RMS voltage, between phase B and C, interharmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_4_avg | RMS voltage, between phase B and C, interharmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_5_avg | RMS voltage, between phase B and C, interharmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_6_avg | RMS voltage, between phase B and C, interharmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_7_avg | RMS voltage, between phase B and C, interharmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_8_avg | RMS voltage, between phase B and C, interharmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_9_avg | RMS voltage, between phase B and C, interharmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_10_avg | RMS voltage, between phase B and C, interharmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_11_avg | RMS voltage, between phase B and C, interharmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_12_avg | RMS voltage, between phase B and C, interharmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_13_avg | RMS voltage, between phase B and C, interharmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_14_avg | RMS voltage, between phase B and C, interharmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_15_avg | RMS voltage, between phase B and C, interharmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_16_avg | RMS voltage, between phase B and C, interharmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_17_avg | RMS voltage, between phase B and C, interharmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_18_avg | RMS voltage, between phase B and C, interharmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_19_avg | RMS voltage, between phase B and C, interharmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_20_avg | RMS voltage, between phase B and C, interharmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_21_avg | RMS voltage, between phase B and C, interharmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_22_avg | RMS voltage, between phase B and C, interharmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_23_avg | RMS voltage, between phase B and C, interharmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_24_avg | RMS voltage, between phase B and C, interharmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_25_avg | RMS voltage, between phase B and C, interharmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_26_avg | RMS voltage, between phase B and C, interharmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_27_avg | RMS voltage, between phase B and C, interharmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_28_avg | RMS voltage, between phase B and C, interharmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_29_avg | RMS voltage, between phase B and C, interharmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_30_avg | RMS voltage, between phase B and C, interharmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_31_avg | RMS voltage, between phase B and C, interharmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_32_avg | RMS voltage, between phase B and C, interharmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_33_avg | RMS voltage, between phase B and C, interharmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_34_avg | RMS voltage, between phase B and C, interharmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_35_avg | RMS voltage, between phase B and C, interharmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_36_avg | RMS voltage, between phase B and C, interharmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_37_avg | RMS voltage, between phase B and C, interharmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_38_avg | RMS voltage, between phase B and C, interharmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_39_avg | RMS voltage, between phase B and C, interharmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_40_avg | RMS voltage, between phase B and C, interharmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_41_avg | RMS voltage, between phase B and C, interharmonic component #41, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_iharm_42_avg | RMS voltage, between phase B and C, interharmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_43_avg | RMS voltage, between phase B and C, interharmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_44_avg | RMS voltage, between phase B and C, interharmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_45_avg | RMS voltage, between phase B and C, interharmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_46_avg | RMS voltage, between phase B and C, interharmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_47_avg | RMS voltage, between phase B and C, interharmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_48_avg | RMS voltage, between phase B and C, interharmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_49_avg | RMS voltage, between phase B and C, interharmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_50_avg | RMS voltage, between phase B and C, interharmonic component #50, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_0_avg | RMS voltage, between phase C and A, interharmonic component #0, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_1_avg | RMS voltage, between phase C and A, interharmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_2_avg | RMS voltage, between phase C and A, interharmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_3_avg | RMS voltage, between phase C and A, interharmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_4_avg | RMS voltage, between phase C and A, interharmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_5_avg | RMS voltage, between phase C and A, interharmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_6_avg | RMS voltage, between phase C and A, interharmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_7_avg | RMS voltage, between phase C and A, interharmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_8_avg | RMS voltage, between phase C and A, interharmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_9_avg | RMS voltage, between phase C and A, interharmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_10_avg | RMS voltage, between phase C and A, interharmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_11_avg | RMS voltage, between phase C and A, interharmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_12_avg | RMS voltage, between phase C and A, interharmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_13_avg | RMS voltage, between phase C and A, interharmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_14_avg | RMS voltage, between phase C and A, interharmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_15_avg | RMS voltage, between phase C and A, interharmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_16_avg | RMS voltage, between phase C and A, interharmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_17_avg | RMS voltage, between phase C and A, interharmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_18_avg | RMS voltage, between phase C and A, interharmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_19_avg | RMS voltage, between phase C and A, interharmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_20_avg | RMS voltage, between phase C and A, interharmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_21_avg | RMS voltage, between phase C and A, interharmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_22_avg | RMS voltage, between phase C and A, interharmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_23_avg | RMS voltage, between phase C and A, interharmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_24_avg | RMS voltage, between phase C and A, interharmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_25_avg | RMS voltage, between phase C and A, interharmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_26_avg | RMS voltage, between phase C and A, interharmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_27_avg | RMS voltage, between phase C and A, interharmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_28_avg | RMS voltage, between phase C and A, interharmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_29_avg | RMS voltage, between phase C and A, interharmonic component #29, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_iharm_30_avg | RMS voltage, between phase C and A, interharmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_31_avg | RMS voltage, between phase C and A, interharmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_32_avg | RMS voltage, between phase C and A, interharmonic component #32, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_33_avg | RMS voltage, between phase C and A, interharmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_34_avg | RMS voltage, between phase C and A, interharmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_35_avg | RMS voltage, between phase C and A, interharmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_36_avg | RMS voltage, between phase C and A, interharmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_37_avg | RMS voltage, between phase C and A, interharmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_38_avg | RMS voltage, between phase C and A, interharmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_39_avg | RMS voltage, between phase C and A, interharmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_40_avg | RMS voltage, between phase C and A, interharmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_41_avg | RMS voltage, between phase C and A, interharmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_42_avg | RMS voltage, between phase C and A, interharmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_43_avg | RMS voltage, between phase C and A, interharmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_44_avg | RMS voltage, between phase C and A, interharmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_45_avg | RMS voltage, between phase C and A, interharmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_46_avg | RMS voltage, between phase C and A, interharmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_47_avg | RMS voltage, between phase C and A, interharmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_48_avg | RMS voltage, between phase C and A, interharmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_49_avg | RMS voltage, between phase C and A, interharmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_50_avg | RMS voltage, between phase C and A, interharmonic component #50, average of 10/12-cycle intervals | V | 600 |
| a_AN_iharm_0_avg | RMS current, between phase A and N, interharmonic component #0, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_1_avg | RMS current, between phase A and N, interharmonic component #1, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_2_avg | RMS current, between phase A and N, interharmonic component #2, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_3_avg | RMS current, between phase A and N, interharmonic component #3, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_4_avg | RMS current, between phase A and N, interharmonic component #4, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_5_avg | RMS current, between phase A and N, interharmonic component #5, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_6_avg | RMS current, between phase A and N, interharmonic component #6, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_7_avg | RMS current, between phase A and N, interharmonic component #7, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_8_avg | RMS current, between phase A and N, interharmonic component #8, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_9_avg | RMS current, between phase A and N, interharmonic component #9, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_10_avg | RMS current, between phase A and N, interharmonic component #10, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_11_avg | RMS current, between phase A and N, interharmonic component #11, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_12_avg | RMS current, between phase A and N, interharmonic component #12, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_13_avg | RMS current, between phase A and N, interharmonic component #13, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_14_avg | RMS current, between phase A and N, interharmonic component #14, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_15_avg | RMS current, between phase A and N, interharmonic component #15, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_16_avg | RMS current, between phase A and N, interharmonic component #16, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_17_avg | RMS current, between phase A and N, interharmonic component #17, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_AN_iharm_18_avg | RMS current, between phase A and N, interharmonic component #18, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_19_avg | RMS current, between phase A and N, interharmonic component #19, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_20_avg | RMS current, between phase A and N, interharmonic component #20, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_21_avg | RMS current, between phase A and N, interharmonic component #21, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_22_avg | RMS current, between phase A and N, interharmonic component #22, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_23_avg | RMS current, between phase A and N, interharmonic component #23, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_24_avg | RMS current, between phase A and N, interharmonic component #24, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_25_avg | RMS current, between phase A and N, interharmonic component #25, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_26_avg | RMS current, between phase A and N, interharmonic component #26, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_27_avg | RMS current, between phase A and N, interharmonic component #27, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_28_avg | RMS current, between phase A and N, interharmonic component #28, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_29_avg | RMS current, between phase A and N, interharmonic component #29, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_30_avg | RMS current, between phase A and N, interharmonic component #30, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_31_avg | RMS current, between phase A and N, interharmonic component #31, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_32_avg | RMS current, between phase A and N, interharmonic component #32, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_33_avg | RMS current, between phase A and N, interharmonic component #33, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_34_avg | RMS current, between phase A and N, interharmonic component #34, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_35_avg | RMS current, between phase A and N, interharmonic component #35, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_36_avg | RMS current, between phase A and N, interharmonic component #36, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_37_avg | RMS current, between phase A and N, interharmonic component #37, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_38_avg | RMS current, between phase A and N, interharmonic component #38, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_39_avg | RMS current, between phase A and N, interharmonic component #39, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_40_avg | RMS current, between phase A and N, interharmonic component #40, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_41_avg | RMS current, between phase A and N, interharmonic component #41, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_42_avg | RMS current, between phase A and N, interharmonic component #42, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_43_avg | RMS current, between phase A and N, interharmonic component #43, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_44_avg | RMS current, between phase A and N, interharmonic component #44, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_45_avg | RMS current, between phase A and N, interharmonic component #45, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_46_avg | RMS current, between phase A and N, interharmonic component #46, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_47_avg | RMS current, between phase A and N, interharmonic component #47, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_48_avg | RMS current, between phase A and N, interharmonic component #48, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_49_avg | RMS current, between phase A and N, interharmonic component #49, average of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_50_avg | RMS current, between phase A and N, interharmonic component #50, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_0_avg | RMS current, between phase B and N, interharmonic component #0, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_1_avg | RMS current, between phase B and N, interharmonic component #1, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_2_avg | RMS current, between phase B and N, interharmonic component #2, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_3_avg | RMS current, between phase B and N, interharmonic component #3, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_4_avg | RMS current, between phase B and N, interharmonic component #4, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_5_avg | RMS current, between phase B and N, interharmonic component #5, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_BN_iharm_6_avg | RMS current, between phase B and N, interharmonic component #6, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_7_avg | RMS current, between phase B and N, interharmonic component #7, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_8_avg | RMS current, between phase B and N, interharmonic component #8, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_9_avg | RMS current, between phase B and N, interharmonic component #9, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_10_avg | RMS current, between phase B and N, interharmonic component #10, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_11_avg | RMS current, between phase B and N, interharmonic component #11, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_12_avg | RMS current, between phase B and N, interharmonic component #12, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_13_avg | RMS current, between phase B and N, interharmonic component #13, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_14_avg | RMS current, between phase B and N, interharmonic component #14, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_15_avg | RMS current, between phase B and N, interharmonic component #15, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_16_avg | RMS current, between phase B and N, interharmonic component #16, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_17_avg | RMS current, between phase B and N, interharmonic component #17, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_18_avg | RMS current, between phase B and N, interharmonic component #18, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_19_avg | RMS current, between phase B and N, interharmonic component #19, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_20_avg | RMS current, between phase B and N, interharmonic component #20, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_21_avg | RMS current, between phase B and N, interharmonic component #21, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_22_avg | RMS current, between phase B and N, interharmonic component #22, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_23_avg | RMS current, between phase B and N, interharmonic component #23, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_24_avg | RMS current, between phase B and N, interharmonic component #24, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_25_avg | RMS current, between phase B and N, interharmonic component #25, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_26_avg | RMS current, between phase B and N, interharmonic component #26, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_27_avg | RMS current, between phase B and N, interharmonic component #27, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_28_avg | RMS current, between phase B and N, interharmonic component #28, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_29_avg | RMS current, between phase B and N, interharmonic component #29, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_30_avg | RMS current, between phase B and N, interharmonic component #30, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_31_avg | RMS current, between phase B and N, interharmonic component #31, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_32_avg | RMS current, between phase B and N, interharmonic component #32, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_33_avg | RMS current, between phase B and N, interharmonic component #33, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_34_avg | RMS current, between phase B and N, interharmonic component #34, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_35_avg | RMS current, between phase B and N, interharmonic component #35, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_36_avg | RMS current, between phase B and N, interharmonic component #36, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_37_avg | RMS current, between phase B and N, interharmonic component #37, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_38_avg | RMS current, between phase B and N, interharmonic component #38, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_39_avg | RMS current, between phase B and N, interharmonic component #39, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_40_avg | RMS current, between phase B and N, interharmonic component #40, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_41_avg | RMS current, between phase B and N, interharmonic component #41, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_42_avg | RMS current, between phase B and N, interharmonic component #42, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_43_avg | RMS current, between phase B and N, interharmonic component #43, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_44_avg | RMS current, between phase B and N, interharmonic component #44, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_BN_iharm_45_avg | RMS current, between phase B and N, interharmonic component #45, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_46_avg | RMS current, between phase B and N, interharmonic component #46, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_47_avg | RMS current, between phase B and N, interharmonic component #47, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_48_avg | RMS current, between phase B and N, interharmonic component #48, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_49_avg | RMS current, between phase B and N, interharmonic component #49, average of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_50_avg | RMS current, between phase B and N, interharmonic component #50, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_0_avg | RMS current, between phase C and N, interharmonic component #0, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_1_avg | RMS current, between phase C and N, interharmonic component #1, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_2_avg | RMS current, between phase C and N, interharmonic component #2, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_3_avg | RMS current, between phase C and N, interharmonic component #3, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_4_avg | RMS current, between phase C and N, interharmonic component #4, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_5_avg | RMS current, between phase C and N, interharmonic component #5, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_6_avg | RMS current, between phase C and N, interharmonic component #6, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_7_avg | RMS current, between phase C and N, interharmonic component #7, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_8_avg | RMS current, between phase C and N, interharmonic component #8, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_9_avg | RMS current, between phase C and N, interharmonic component #9, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_10_avg | RMS current, between phase C and N, interharmonic component #10, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_11_avg | RMS current, between phase C and N, interharmonic component #11, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_12_avg | RMS current, between phase C and N, interharmonic component #12, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_13_avg | RMS current, between phase C and N, interharmonic component #13, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_14_avg | RMS current, between phase C and N, interharmonic component #14, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_15_avg | RMS current, between phase C and N, interharmonic component #15, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_16_avg | RMS current, between phase C and N, interharmonic component #16, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_17_avg | RMS current, between phase C and N, interharmonic component #17, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_18_avg | RMS current, between phase C and N, interharmonic component #18, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_19_avg | RMS current, between phase C and N, interharmonic component #19, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_20_avg | RMS current, between phase C and N, interharmonic component #20, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_21_avg | RMS current, between phase C and N, interharmonic component #21, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_22_avg | RMS current, between phase C and N, interharmonic component #22, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_23_avg | RMS current, between phase C and N, interharmonic component #23, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_24_avg | RMS current, between phase C and N, interharmonic component #24, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_25_avg | RMS current, between phase C and N, interharmonic component #25, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_26_avg | RMS current, between phase C and N, interharmonic component #26, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_27_avg | RMS current, between phase C and N, interharmonic component #27, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_28_avg | RMS current, between phase C and N, interharmonic component #28, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_29_avg | RMS current, between phase C and N, interharmonic component #29, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_30_avg | RMS current, between phase C and N, interharmonic component #30, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_31_avg | RMS current, between phase C and N, interharmonic component #31, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_32_avg | RMS current, between phase C and N, interharmonic component #32, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_CN_iharm_33_avg | RMS current, between phase C and N, interharmonic component #33, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_34_avg | RMS current, between phase C and N, interharmonic component #34, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_35_avg | RMS current, between phase C and N, interharmonic component #35, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_36_avg | RMS current, between phase C and N, interharmonic component #36, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_37_avg | RMS current, between phase C and N, interharmonic component #37, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_38_avg | RMS current, between phase C and N, interharmonic component #38, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_39_avg | RMS current, between phase C and N, interharmonic component #39, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_40_avg | RMS current, between phase C and N, interharmonic component #40, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_41_avg | RMS current, between phase C and N, interharmonic component #41, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_42_avg | RMS current, between phase C and N, interharmonic component #42, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_43_avg | RMS current, between phase C and N, interharmonic component #43, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_44_avg | RMS current, between phase C and N, interharmonic component #44, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_45_avg | RMS current, between phase C and N, interharmonic component #45, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_46_avg | RMS current, between phase C and N, interharmonic component #46, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_47_avg | RMS current, between phase C and N, interharmonic component #47, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_48_avg | RMS current, between phase C and N, interharmonic component #48, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_49_avg | RMS current, between phase C and N, interharmonic component #49, average of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_50_avg | RMS current, between phase C and N, interharmonic component #50, average of 10/12-cycle intervals | A | 600 |
| v_AN_iharm_0_max | RMS voltage, between phase A and N, interharmonic component #0, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_1_max | RMS voltage, between phase A and N, interharmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_2_max | RMS voltage, between phase A and N, interharmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_3_max | RMS voltage, between phase A and N, interharmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_4_max | RMS voltage, between phase A and N, interharmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_5_max | RMS voltage, between phase A and N, interharmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_6_max | RMS voltage, between phase A and N, interharmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_7_max | RMS voltage, between phase A and N, interharmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_8_max | RMS voltage, between phase A and N, interharmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_9_max | RMS voltage, between phase A and N, interharmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_10_max | RMS voltage, between phase A and N, interharmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_11_max | RMS voltage, between phase A and N, interharmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_12_max | RMS voltage, between phase A and N, interharmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_13_max | RMS voltage, between phase A and N, interharmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_14_max | RMS voltage, between phase A and N, interharmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_15_max | RMS voltage, between phase A and N, interharmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_16_max | RMS voltage, between phase A and N, interharmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_17_max | RMS voltage, between phase A and N, interharmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_18_max | RMS voltage, between phase A and N, interharmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_19_max | RMS voltage, between phase A and N, interharmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_20_max | RMS voltage, between phase A and N, interharmonic component #20, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AN_iharm_21_max | RMS voltage, between phase A and N, interharmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_22_max | RMS voltage, between phase A and N, interharmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_23_max | RMS voltage, between phase A and N, interharmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_24_max | RMS voltage, between phase A and N, interharmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_25_max | RMS voltage, between phase A and N, interharmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_26_max | RMS voltage, between phase A and N, interharmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_27_max | RMS voltage, between phase A and N, interharmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_28_max | RMS voltage, between phase A and N, interharmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_29_max | RMS voltage, between phase A and N, interharmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_30_max | RMS voltage, between phase A and N, interharmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_31_max | RMS voltage, between phase A and N, interharmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_32_max | RMS voltage, between phase A and N, interharmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_33_max | RMS voltage, between phase A and N, interharmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_34_max | RMS voltage, between phase A and N, interharmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_35_max | RMS voltage, between phase A and N, interharmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_36_max | RMS voltage, between phase A and N, interharmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_37_max | RMS voltage, between phase A and N, interharmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_38_max | RMS voltage, between phase A and N, interharmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_39_max | RMS voltage, between phase A and N, interharmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_40_max | RMS voltage, between phase A and N, interharmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_41_max | RMS voltage, between phase A and N, interharmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_42_max | RMS voltage, between phase A and N, interharmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_43_max | RMS voltage, between phase A and N, interharmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_44_max | RMS voltage, between phase A and N, interharmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_45_max | RMS voltage, between phase A and N, interharmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_46_max | RMS voltage, between phase A and N, interharmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_47_max | RMS voltage, between phase A and N, interharmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_48_max | RMS voltage, between phase A and N, interharmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_49_max | RMS voltage, between phase A and N, interharmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_AN_iharm_50_max | RMS voltage, between phase A and N, interharmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_0_max | RMS voltage, between phase B and N, interharmonic component #0, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_1_max | RMS voltage, between phase B and N, interharmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_2_max | RMS voltage, between phase B and N, interharmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_3_max | RMS voltage, between phase B and N, interharmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_4_max | RMS voltage, between phase B and N, interharmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_5_max | RMS voltage, between phase B and N, interharmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_6_max | RMS voltage, between phase B and N, interharmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_7_max | RMS voltage, between phase B and N, interharmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_8_max | RMS voltage, between phase B and N, interharmonic component #8, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_iharm_9_max | RMS voltage, between phase B and N, interharmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_10_max | RMS voltage, between phase B and N, interharmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_11_max | RMS voltage, between phase B and N, interharmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_12_max | RMS voltage, between phase B and N, interharmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_13_max | RMS voltage, between phase B and N, interharmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_14_max | RMS voltage, between phase B and N, interharmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_15_max | RMS voltage, between phase B and N, interharmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_16_max | RMS voltage, between phase B and N, interharmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_17_max | RMS voltage, between phase B and N, interharmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_18_max | RMS voltage, between phase B and N, interharmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_19_max | RMS voltage, between phase B and N, interharmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_20_max | RMS voltage, between phase B and N, interharmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_21_max | RMS voltage, between phase B and N, interharmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_22_max | RMS voltage, between phase B and N, interharmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_23_max | RMS voltage, between phase B and N, interharmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_24_max | RMS voltage, between phase B and N, interharmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_25_max | RMS voltage, between phase B and N, interharmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_26_max | RMS voltage, between phase B and N, interharmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_27_max | RMS voltage, between phase B and N, interharmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_28_max | RMS voltage, between phase B and N, interharmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_29_max | RMS voltage, between phase B and N, interharmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_30_max | RMS voltage, between phase B and N, interharmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_31_max | RMS voltage, between phase B and N, interharmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_32_max | RMS voltage, between phase B and N, interharmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_33_max | RMS voltage, between phase B and N, interharmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_34_max | RMS voltage, between phase B and N, interharmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_35_max | RMS voltage, between phase B and N, interharmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_36_max | RMS voltage, between phase B and N, interharmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_37_max | RMS voltage, between phase B and N, interharmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_38_max | RMS voltage, between phase B and N, interharmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_39_max | RMS voltage, between phase B and N, interharmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_40_max | RMS voltage, between phase B and N, interharmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_41_max | RMS voltage, between phase B and N, interharmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_42_max | RMS voltage, between phase B and N, interharmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_43_max | RMS voltage, between phase B and N, interharmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_44_max | RMS voltage, between phase B and N, interharmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_45_max | RMS voltage, between phase B and N, interharmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_46_max | RMS voltage, between phase B and N, interharmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_47_max | RMS voltage, between phase B and N, interharmonic component #47, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BN_iharm_48_max | RMS voltage, between phase B and N, interharmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_49_max | RMS voltage, between phase B and N, interharmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_BN_iharm_50_max | RMS voltage, between phase B and N, interharmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_0_max | RMS voltage, between phase C and N, interharmonic component #0, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_1_max | RMS voltage, between phase C and N, interharmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_2_max | RMS voltage, between phase C and N, interharmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_3_max | RMS voltage, between phase C and N, interharmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_4_max | RMS voltage, between phase C and N, interharmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_5_max | RMS voltage, between phase C and N, interharmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_6_max | RMS voltage, between phase C and N, interharmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_7_max | RMS voltage, between phase C and N, interharmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_8_max | RMS voltage, between phase C and N, interharmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_9_max | RMS voltage, between phase C and N, interharmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_10_max | RMS voltage, between phase C and N, interharmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_11_max | RMS voltage, between phase C and N, interharmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_12_max | RMS voltage, between phase C and N, interharmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_13_max | RMS voltage, between phase C and N, interharmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_14_max | RMS voltage, between phase C and N, interharmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_15_max | RMS voltage, between phase C and N, interharmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_16_max | RMS voltage, between phase C and N, interharmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_17_max | RMS voltage, between phase C and N, interharmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_18_max | RMS voltage, between phase C and N, interharmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_19_max | RMS voltage, between phase C and N, interharmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_20_max | RMS voltage, between phase C and N, interharmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_21_max | RMS voltage, between phase C and N, interharmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_22_max | RMS voltage, between phase C and N, interharmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_23_max | RMS voltage, between phase C and N, interharmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_24_max | RMS voltage, between phase C and N, interharmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_25_max | RMS voltage, between phase C and N, interharmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_26_max | RMS voltage, between phase C and N, interharmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_27_max | RMS voltage, between phase C and N, interharmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_28_max | RMS voltage, between phase C and N, interharmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_29_max | RMS voltage, between phase C and N, interharmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_30_max | RMS voltage, between phase C and N, interharmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_31_max | RMS voltage, between phase C and N, interharmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_32_max | RMS voltage, between phase C and N, interharmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_33_max | RMS voltage, between phase C and N, interharmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_34_max | RMS voltage, between phase C and N, interharmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_35_max | RMS voltage, between phase C and N, interharmonic component #35, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CN_iharm_36_max | RMS voltage, between phase C and N, interharmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_37_max | RMS voltage, between phase C and N, interharmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_38_max | RMS voltage, between phase C and N, interharmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_39_max | RMS voltage, between phase C and N, interharmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_40_max | RMS voltage, between phase C and N, interharmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_41_max | RMS voltage, between phase C and N, interharmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_42_max | RMS voltage, between phase C and N, interharmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_43_max | RMS voltage, between phase C and N, interharmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_44_max | RMS voltage, between phase C and N, interharmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_45_max | RMS voltage, between phase C and N, interharmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_46_max | RMS voltage, between phase C and N, interharmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_47_max | RMS voltage, between phase C and N, interharmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_48_max | RMS voltage, between phase C and N, interharmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_49_max | RMS voltage, between phase C and N, interharmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_CN_iharm_50_max | RMS voltage, between phase C and N, interharmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_0_max | RMS voltage, between phase A and B, interharmonic component #0, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_1_max | RMS voltage, between phase A and B, interharmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_2_max | RMS voltage, between phase A and B, interharmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_3_max | RMS voltage, between phase A and B, interharmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_4_max | RMS voltage, between phase A and B, interharmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_5_max | RMS voltage, between phase A and B, interharmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_6_max | RMS voltage, between phase A and B, interharmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_7_max | RMS voltage, between phase A and B, interharmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_8_max | RMS voltage, between phase A and B, interharmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_9_max | RMS voltage, between phase A and B, interharmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_10_max | RMS voltage, between phase A and B, interharmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_11_max | RMS voltage, between phase A and B, interharmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_12_max | RMS voltage, between phase A and B, interharmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_13_max | RMS voltage, between phase A and B, interharmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_14_max | RMS voltage, between phase A and B, interharmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_15_max | RMS voltage, between phase A and B, interharmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_16_max | RMS voltage, between phase A and B, interharmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_17_max | RMS voltage, between phase A and B, interharmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_18_max | RMS voltage, between phase A and B, interharmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_19_max | RMS voltage, between phase A and B, interharmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_20_max | RMS voltage, between phase A and B, interharmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_21_max | RMS voltage, between phase A and B, interharmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_22_max | RMS voltage, between phase A and B, interharmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_23_max | RMS voltage, between phase A and B, interharmonic component #23, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_AB_iharm_24_max | RMS voltage, between phase A and B, interharmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_25_max | RMS voltage, between phase A and B, interharmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_26_max | RMS voltage, between phase A and B, interharmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_27_max | RMS voltage, between phase A and B, interharmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_28_max | RMS voltage, between phase A and B, interharmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_29_max | RMS voltage, between phase A and B, interharmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_30_max | RMS voltage, between phase A and B, interharmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_31_max | RMS voltage, between phase A and B, interharmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_32_max | RMS voltage, between phase A and B, interharmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_33_max | RMS voltage, between phase A and B, interharmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_34_max | RMS voltage, between phase A and B, interharmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_35_max | RMS voltage, between phase A and B, interharmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_36_max | RMS voltage, between phase A and B, interharmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_37_max | RMS voltage, between phase A and B, interharmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_38_max | RMS voltage, between phase A and B, interharmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_39_max | RMS voltage, between phase A and B, interharmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_40_max | RMS voltage, between phase A and B, interharmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_41_max | RMS voltage, between phase A and B, interharmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_42_max | RMS voltage, between phase A and B, interharmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_43_max | RMS voltage, between phase A and B, interharmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_44_max | RMS voltage, between phase A and B, interharmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_45_max | RMS voltage, between phase A and B, interharmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_46_max | RMS voltage, between phase A and B, interharmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_47_max | RMS voltage, between phase A and B, interharmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_48_max | RMS voltage, between phase A and B, interharmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_49_max | RMS voltage, between phase A and B, interharmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_AB_iharm_50_max | RMS voltage, between phase A and B, interharmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_0_max | RMS voltage, between phase B and C, interharmonic component #0, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_1_max | RMS voltage, between phase B and C, interharmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_2_max | RMS voltage, between phase B and C, interharmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_3_max | RMS voltage, between phase B and C, interharmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_4_max | RMS voltage, between phase B and C, interharmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_5_max | RMS voltage, between phase B and C, interharmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_6_max | RMS voltage, between phase B and C, interharmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_7_max | RMS voltage, between phase B and C, interharmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_8_max | RMS voltage, between phase B and C, interharmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_9_max | RMS voltage, between phase B and C, interharmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_10_max | RMS voltage, between phase B and C, interharmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_11_max | RMS voltage, between phase B and C, interharmonic component #11, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_BC_iharm_12_max | RMS voltage, between phase B and C, interharmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_13_max | RMS voltage, between phase B and C, interharmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_14_max | RMS voltage, between phase B and C, interharmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_15_max | RMS voltage, between phase B and C, interharmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_16_max | RMS voltage, between phase B and C, interharmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_17_max | RMS voltage, between phase B and C, interharmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_18_max | RMS voltage, between phase B and C, interharmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_19_max | RMS voltage, between phase B and C, interharmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_20_max | RMS voltage, between phase B and C, interharmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_21_max | RMS voltage, between phase B and C, interharmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_22_max | RMS voltage, between phase B and C, interharmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_23_max | RMS voltage, between phase B and C, interharmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_24_max | RMS voltage, between phase B and C, interharmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_25_max | RMS voltage, between phase B and C, interharmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_26_max | RMS voltage, between phase B and C, interharmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_27_max | RMS voltage, between phase B and C, interharmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_28_max | RMS voltage, between phase B and C, interharmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_29_max | RMS voltage, between phase B and C, interharmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_30_max | RMS voltage, between phase B and C, interharmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_31_max | RMS voltage, between phase B and C, interharmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_32_max | RMS voltage, between phase B and C, interharmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_33_max | RMS voltage, between phase B and C, interharmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_34_max | RMS voltage, between phase B and C, interharmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_35_max | RMS voltage, between phase B and C, interharmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_36_max | RMS voltage, between phase B and C, interharmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_37_max | RMS voltage, between phase B and C, interharmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_38_max | RMS voltage, between phase B and C, interharmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_39_max | RMS voltage, between phase B and C, interharmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_40_max | RMS voltage, between phase B and C, interharmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_41_max | RMS voltage, between phase B and C, interharmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_42_max | RMS voltage, between phase B and C, interharmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_43_max | RMS voltage, between phase B and C, interharmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_44_max | RMS voltage, between phase B and C, interharmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_45_max | RMS voltage, between phase B and C, interharmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_46_max | RMS voltage, between phase B and C, interharmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_47_max | RMS voltage, between phase B and C, interharmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_48_max | RMS voltage, between phase B and C, interharmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_49_max | RMS voltage, between phase B and C, interharmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_BC_iharm_50_max | RMS voltage, between phase B and C, interharmonic component #50, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_iharm_0_max | RMS voltage, between phase C and A, interharmonic component #0, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_1_max | RMS voltage, between phase C and A, interharmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_2_max | RMS voltage, between phase C and A, interharmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_3_max | RMS voltage, between phase C and A, interharmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_4_max | RMS voltage, between phase C and A, interharmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_5_max | RMS voltage, between phase C and A, interharmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_6_max | RMS voltage, between phase C and A, interharmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_7_max | RMS voltage, between phase C and A, interharmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_8_max | RMS voltage, between phase C and A, interharmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_9_max | RMS voltage, between phase C and A, interharmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_10_max | RMS voltage, between phase C and A, interharmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_11_max | RMS voltage, between phase C and A, interharmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_12_max | RMS voltage, between phase C and A, interharmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_13_max | RMS voltage, between phase C and A, interharmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_14_max | RMS voltage, between phase C and A, interharmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_15_max | RMS voltage, between phase C and A, interharmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_16_max | RMS voltage, between phase C and A, interharmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_17_max | RMS voltage, between phase C and A, interharmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_18_max | RMS voltage, between phase C and A, interharmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_19_max | RMS voltage, between phase C and A, interharmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_20_max | RMS voltage, between phase C and A, interharmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_21_max | RMS voltage, between phase C and A, interharmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_22_max | RMS voltage, between phase C and A, interharmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_23_max | RMS voltage, between phase C and A, interharmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_24_max | RMS voltage, between phase C and A, interharmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_25_max | RMS voltage, between phase C and A, interharmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_26_max | RMS voltage, between phase C and A, interharmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_27_max | RMS voltage, between phase C and A, interharmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_28_max | RMS voltage, between phase C and A, interharmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_29_max | RMS voltage, between phase C and A, interharmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_30_max | RMS voltage, between phase C and A, interharmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_31_max | RMS voltage, between phase C and A, interharmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_32_max | RMS voltage, between phase C and A, interharmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_33_max | RMS voltage, between phase C and A, interharmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_34_max | RMS voltage, between phase C and A, interharmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_35_max | RMS voltage, between phase C and A, interharmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_36_max | RMS voltage, between phase C and A, interharmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_37_max | RMS voltage, between phase C and A, interharmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_38_max | RMS voltage, between phase C and A, interharmonic component #38, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_CA_iharm_39_max | RMS voltage, between phase C and A, interharmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_40_max | RMS voltage, between phase C and A, interharmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_41_max | RMS voltage, between phase C and A, interharmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_42_max | RMS voltage, between phase C and A, interharmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_43_max | RMS voltage, between phase C and A, interharmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_44_max | RMS voltage, between phase C and A, interharmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_45_max | RMS voltage, between phase C and A, interharmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_46_max | RMS voltage, between phase C and A, interharmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_47_max | RMS voltage, between phase C and A, interharmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_48_max | RMS voltage, between phase C and A, interharmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_49_max | RMS voltage, between phase C and A, interharmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_CA_iharm_50_max | RMS voltage, between phase C and A, interharmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| a_AN_iharm_0_max | RMS current, between phase A and N, interharmonic component #0, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_1_max | RMS current, between phase A and N, interharmonic component #1, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_2_max | RMS current, between phase A and N, interharmonic component #2, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_3_max | RMS current, between phase A and N, interharmonic component #3, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_4_max | RMS current, between phase A and N, interharmonic component #4, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_5_max | RMS current, between phase A and N, interharmonic component #5, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_6_max | RMS current, between phase A and N, interharmonic component #6, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_7_max | RMS current, between phase A and N, interharmonic component #7, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_8_max | RMS current, between phase A and N, interharmonic component #8, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_9_max | RMS current, between phase A and N, interharmonic component #9, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_10_max | RMS current, between phase A and N, interharmonic component #10, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_11_max | RMS current, between phase A and N, interharmonic component #11, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_12_max | RMS current, between phase A and N, interharmonic component #12, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_13_max | RMS current, between phase A and N, interharmonic component #13, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_14_max | RMS current, between phase A and N, interharmonic component #14, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_15_max | RMS current, between phase A and N, interharmonic component #15, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_16_max | RMS current, between phase A and N, interharmonic component #16, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_17_max | RMS current, between phase A and N, interharmonic component #17, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_18_max | RMS current, between phase A and N, interharmonic component #18, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_19_max | RMS current, between phase A and N, interharmonic component #19, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_20_max | RMS current, between phase A and N, interharmonic component #20, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_21_max | RMS current, between phase A and N, interharmonic component #21, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_22_max | RMS current, between phase A and N, interharmonic component #22, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_23_max | RMS current, between phase A and N, interharmonic component #23, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_24_max | RMS current, between phase A and N, interharmonic component #24, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_25_max | RMS current, between phase A and N, interharmonic component #25, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_26_max | RMS current, between phase A and N, interharmonic component #26, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_AN_iharm_27_max | RMS current, between phase A and N, interharmonic component #27, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_28_max | RMS current, between phase A and N, interharmonic component #28, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_29_max | RMS current, between phase A and N, interharmonic component #29, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_30_max | RMS current, between phase A and N, interharmonic component #30, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_31_max | RMS current, between phase A and N, interharmonic component #31, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_32_max | RMS current, between phase A and N, interharmonic component #32, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_33_max | RMS current, between phase A and N, interharmonic component #33, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_34_max | RMS current, between phase A and N, interharmonic component #34, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_35_max | RMS current, between phase A and N, interharmonic component #35, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_36_max | RMS current, between phase A and N, interharmonic component #36, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_37_max | RMS current, between phase A and N, interharmonic component #37, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_38_max | RMS current, between phase A and N, interharmonic component #38, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_39_max | RMS current, between phase A and N, interharmonic component #39, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_40_max | RMS current, between phase A and N, interharmonic component #40, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_41_max | RMS current, between phase A and N, interharmonic component #41, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_42_max | RMS current, between phase A and N, interharmonic component #42, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_43_max | RMS current, between phase A and N, interharmonic component #43, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_44_max | RMS current, between phase A and N, interharmonic component #44, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_45_max | RMS current, between phase A and N, interharmonic component #45, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_46_max | RMS current, between phase A and N, interharmonic component #46, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_47_max | RMS current, between phase A and N, interharmonic component #47, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_48_max | RMS current, between phase A and N, interharmonic component #48, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_49_max | RMS current, between phase A and N, interharmonic component #49, maximum of 10/12-cycle intervals | A | 600 |
| a_AN_iharm_50_max | RMS current, between phase A and N, interharmonic component #50, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_0_max | RMS current, between phase B and N, interharmonic component #0, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_1_max | RMS current, between phase B and N, interharmonic component #1, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_2_max | RMS current, between phase B and N, interharmonic component #2, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_3_max | RMS current, between phase B and N, interharmonic component #3, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_4_max | RMS current, between phase B and N, interharmonic component #4, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_5_max | RMS current, between phase B and N, interharmonic component #5, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_6_max | RMS current, between phase B and N, interharmonic component #6, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_7_max | RMS current, between phase B and N, interharmonic component #7, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_8_max | RMS current, between phase B and N, interharmonic component #8, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_9_max | RMS current, between phase B and N, interharmonic component #9, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_10_max | RMS current, between phase B and N, interharmonic component #10, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_11_max | RMS current, between phase B and N, interharmonic component #11, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_12_max | RMS current, between phase B and N, interharmonic component #12, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_13_max | RMS current, between phase B and N, interharmonic component #13, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_14_max | RMS current, between phase B and N, interharmonic component #14, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_BN_iharm_15_max | RMS current, between phase B and N, interharmonic component #15, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_16_max | RMS current, between phase B and N, interharmonic component #16, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_17_max | RMS current, between phase B and N, interharmonic component #17, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_18_max | RMS current, between phase B and N, interharmonic component #18, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_19_max | RMS current, between phase B and N, interharmonic component #19, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_20_max | RMS current, between phase B and N, interharmonic component #20, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_21_max | RMS current, between phase B and N, interharmonic component #21, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_22_max | RMS current, between phase B and N, interharmonic component #22, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_23_max | RMS current, between phase B and N, interharmonic component #23, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_24_max | RMS current, between phase B and N, interharmonic component #24, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_25_max | RMS current, between phase B and N, interharmonic component #25, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_26_max | RMS current, between phase B and N, interharmonic component #26, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_27_max | RMS current, between phase B and N, interharmonic component #27, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_28_max | RMS current, between phase B and N, interharmonic component #28, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_29_max | RMS current, between phase B and N, interharmonic component #29, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_30_max | RMS current, between phase B and N, interharmonic component #30, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_31_max | RMS current, between phase B and N, interharmonic component #31, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_32_max | RMS current, between phase B and N, interharmonic component #32, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_33_max | RMS current, between phase B and N, interharmonic component #33, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_34_max | RMS current, between phase B and N, interharmonic component #34, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_35_max | RMS current, between phase B and N, interharmonic component #35, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_36_max | RMS current, between phase B and N, interharmonic component #36, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_37_max | RMS current, between phase B and N, interharmonic component #37, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_38_max | RMS current, between phase B and N, interharmonic component #38, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_39_max | RMS current, between phase B and N, interharmonic component #39, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_40_max | RMS current, between phase B and N, interharmonic component #40, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_41_max | RMS current, between phase B and N, interharmonic component #41, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_42_max | RMS current, between phase B and N, interharmonic component #42, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_43_max | RMS current, between phase B and N, interharmonic component #43, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_44_max | RMS current, between phase B and N, interharmonic component #44, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_45_max | RMS current, between phase B and N, interharmonic component #45, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_46_max | RMS current, between phase B and N, interharmonic component #46, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_47_max | RMS current, between phase B and N, interharmonic component #47, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_48_max | RMS current, between phase B and N, interharmonic component #48, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_49_max | RMS current, between phase B and N, interharmonic component #49, maximum of 10/12-cycle intervals | A | 600 |
| a_BN_iharm_50_max | RMS current, between phase B and N, interharmonic component #50, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_0_max | RMS current, between phase C and N, interharmonic component #0, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_1_max | RMS current, between phase C and N, interharmonic component #1, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_2_max | RMS current, between phase C and N, interharmonic component #2, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_CN_iharm_3_max | RMS current, between phase C and N, interharmonic component #3, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_4_max | RMS current, between phase C and N, interharmonic component #4, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_5_max | RMS current, between phase C and N, interharmonic component #5, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_6_max | RMS current, between phase C and N, interharmonic component #6, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_7_max | RMS current, between phase C and N, interharmonic component #7, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_8_max | RMS current, between phase C and N, interharmonic component #8, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_9_max | RMS current, between phase C and N, interharmonic component #9, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_10_max | RMS current, between phase C and N, interharmonic component #10, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_11_max | RMS current, between phase C and N, interharmonic component #11, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_12_max | RMS current, between phase C and N, interharmonic component #12, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_13_max | RMS current, between phase C and N, interharmonic component #13, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_14_max | RMS current, between phase C and N, interharmonic component #14, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_15_max | RMS current, between phase C and N, interharmonic component #15, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_16_max | RMS current, between phase C and N, interharmonic component #16, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_17_max | RMS current, between phase C and N, interharmonic component #17, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_18_max | RMS current, between phase C and N, interharmonic component #18, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_19_max | RMS current, between phase C and N, interharmonic component #19, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_20_max | RMS current, between phase C and N, interharmonic component #20, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_21_max | RMS current, between phase C and N, interharmonic component #21, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_22_max | RMS current, between phase C and N, interharmonic component #22, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_23_max | RMS current, between phase C and N, interharmonic component #23, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_24_max | RMS current, between phase C and N, interharmonic component #24, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_25_max | RMS current, between phase C and N, interharmonic component #25, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_26_max | RMS current, between phase C and N, interharmonic component #26, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_27_max | RMS current, between phase C and N, interharmonic component #27, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_28_max | RMS current, between phase C and N, interharmonic component #28, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_29_max | RMS current, between phase C and N, interharmonic component #29, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_30_max | RMS current, between phase C and N, interharmonic component #30, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_31_max | RMS current, between phase C and N, interharmonic component #31, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_32_max | RMS current, between phase C and N, interharmonic component #32, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_33_max | RMS current, between phase C and N, interharmonic component #33, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_34_max | RMS current, between phase C and N, interharmonic component #34, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_35_max | RMS current, between phase C and N, interharmonic component #35, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_36_max | RMS current, between phase C and N, interharmonic component #36, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_37_max | RMS current, between phase C and N, interharmonic component #37, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_38_max | RMS current, between phase C and N, interharmonic component #38, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_39_max | RMS current, between phase C and N, interharmonic component #39, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_40_max | RMS current, between phase C and N, interharmonic component #40, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_41_max | RMS current, between phase C and N, interharmonic component #41, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_CN_iharm_42_max | RMS current, between phase C and N, interharmonic component #42, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_43_max | RMS current, between phase C and N, interharmonic component #43, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_44_max | RMS current, between phase C and N, interharmonic component #44, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_45_max | RMS current, between phase C and N, interharmonic component #45, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_46_max | RMS current, between phase C and N, interharmonic component #46, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_47_max | RMS current, between phase C and N, interharmonic component #47, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_48_max | RMS current, between phase C and N, interharmonic component #48, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_49_max | RMS current, between phase C and N, interharmonic component #49, maximum of 10/12-cycle intervals | A | 600 |
| a_CN_iharm_50_max | RMS current, between phase C and N, interharmonic component #50, maximum of 10/12-cycle intervals | A | 600 |
| v_AB_pst | RMS voltage, between phase A and B, short term flicker | None | 600 |
| v_BC_pst | RMS voltage, between phase B and C, short term flicker | None | 600 |
| v_CA_pst | RMS voltage, between phase C and A, short term flicker | None | 600 |
| v_AB_plt | RMS voltage, between phase A and B, long term flicker | None | 7200 |
| v_BC_plt | RMS voltage, between phase B and C, long term flicker | None | 7200 |
| v_CA_plt | RMS voltage, between phase C and A, long term flicker | None | 7200 |
| v_NG_min | RMS voltage, between NEUTRAL and GROUND, minimum of 10/12-cycle intervals | V | 600 |
| a_NG_min | RMS current, NEUTRAL, minimum of 10/12-cycle intervals | A | 600 |
| v_NG_harm_0_min | RMS voltage, between N and G, harmonic component DC, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_1_min | RMS voltage, between N and G, harmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_2_min | RMS voltage, between N and G, harmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_3_min | RMS voltage, between N and G, harmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_4_min | RMS voltage, between N and G, harmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_5_min | RMS voltage, between N and G, harmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_6_min | RMS voltage, between N and G, harmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_7_min | RMS voltage, between N and G, harmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_8_min | RMS voltage, between N and G, harmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_9_min | RMS voltage, between N and G, harmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_10_min | RMS voltage, between N and G, harmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_11_min | RMS voltage, between N and G, harmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_12_min | RMS voltage, between N and G, harmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_13_min | RMS voltage, between N and G, harmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_14_min | RMS voltage, between N and G, harmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_15_min | RMS voltage, between N and G, harmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_16_min | RMS voltage, between N and G, harmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_17_min | RMS voltage, between N and G, harmonic component #17, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_18_min | RMS voltage, between N and G, harmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_19_min | RMS voltage, between N and G, harmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_20_min | RMS voltage, between N and G, harmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_21_min | RMS voltage, between N and G, harmonic component #21, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_NG_harm_22_min | RMS voltage, between N and G, harmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_23_min | RMS voltage, between N and G, harmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_24_min | RMS voltage, between N and G, harmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_25_min | RMS voltage, between N and G, harmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_26_min | RMS voltage, between N and G, harmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_27_min | RMS voltage, between N and G, harmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_28_min | RMS voltage, between N and G, harmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_29_min | RMS voltage, between N and G, harmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_30_min | RMS voltage, between N and G, harmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_31_min | RMS voltage, between N and G, harmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_32_min | RMS voltage, between N and G, harmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_33_min | RMS voltage, between N and G, harmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_34_min | RMS voltage, between N and G, harmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_35_min | RMS voltage, between N and G, harmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_36_min | RMS voltage, between N and G, harmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_37_min | RMS voltage, between N and G, harmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_38_min | RMS voltage, between N and G, harmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_39_min | RMS voltage, between N and G, harmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_40_min | RMS voltage, between N and G, harmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_41_min | RMS voltage, between N and G, harmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_42_min | RMS voltage, between N and G, harmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_43_min | RMS voltage, between N and G, harmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_44_min | RMS voltage, between N and G, harmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_45_min | RMS voltage, between N and G, harmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_46_min | RMS voltage, between N and G, harmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_47_min | RMS voltage, between N and G, harmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_48_min | RMS voltage, between N and G, harmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_49_min | RMS voltage, between N and G, harmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_50_min | RMS voltage, between N and G, harmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| a_NG_harm_0_min | RMS current, between N and G, harmonic component DC, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_1_min | RMS current, between N and G, harmonic component #1, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_2_min | RMS current, between N and G, harmonic component #2, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_3_min | RMS current, between N and G, harmonic component #3, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_4_min | RMS current, between N and G, harmonic component #4, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_5_min | RMS current, between N and G, harmonic component #5, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_6_min | RMS current, between N and G, harmonic component #6, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_7_min | RMS current, between N and G, harmonic component #7, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_8_min | RMS current, between N and G, harmonic component #8, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_9_min | RMS current, between N and G, harmonic component #9, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_NG_harm_10_min | RMS current, between N and G, harmonic component #10, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_11_min | RMS current, between N and G, harmonic component #11, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_12_min | RMS current, between N and G, harmonic component #12, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_13_min | RMS current, between N and G, harmonic component #13, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_14_min | RMS current, between N and G, harmonic component #14, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_15_min | RMS current, between N and G, harmonic component #15, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_16_min | RMS current, between N and G, harmonic component #16, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_17_min | RMS current, between N and G, harmonic component #17, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_18_min | RMS current, between N and G, harmonic component #18, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_19_min | RMS current, between N and G, harmonic component #19, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_20_min | RMS current, between N and G, harmonic component #20, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_21_min | RMS current, between N and G, harmonic component #21, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_22_min | RMS current, between N and G, harmonic component #22, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_23_min | RMS current, between N and G, harmonic component #23, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_24_min | RMS current, between N and G, harmonic component #24, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_25_min | RMS current, between N and G, harmonic component #25, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_26_min | RMS current, between N and G, harmonic component #26, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_27_min | RMS current, between N and G, harmonic component #27, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_28_min | RMS current, between N and G, harmonic component #28, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_29_min | RMS current, between N and G, harmonic component #29, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_30_min | RMS current, between N and G, harmonic component #30, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_31_min | RMS current, between N and G, harmonic component #31, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_32_min | RMS current, between N and G, harmonic component #32, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_33_min | RMS current, between N and G, harmonic component #33, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_34_min | RMS current, between N and G, harmonic component #34, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_35_min | RMS current, between N and G, harmonic component #35, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_36_min | RMS current, between N and G, harmonic component #36, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_37_min | RMS current, between N and G, harmonic component #37, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_38_min | RMS current, between N and G, harmonic component #38, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_39_min | RMS current, between N and G, harmonic component #39, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_40_min | RMS current, between N and G, harmonic component #40, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_41_min | RMS current, between N and G, harmonic component #41, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_42_min | RMS current, between N and G, harmonic component #42, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_43_min | RMS current, between N and G, harmonic component #43, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_44_min | RMS current, between N and G, harmonic component #44, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_45_min | RMS current, between N and G, harmonic component #45, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_46_min | RMS current, between N and G, harmonic component #46, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_47_min | RMS current, between N and G, harmonic component #47, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_48_min | RMS current, between N and G, harmonic component #48, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_NG_harm_49_min | RMS current, between N and G, harmonic component #49, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_50_min | RMS current, between N and G, harmonic component #50, minimum of 10/12-cycle intervals | A | 600 |
| v_NG_THD_min | RMS voltage, between N and G, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| a_NG_THD_min | RMS current, between N and G, total harmonic distortion, minimum of 10/12-cycle intervals | % | 600 |
| v_NG_avg | RMS voltage, between NEUTRAL and GROUND, average of 10/12-cycle intervals | V | 600 |
| a_NG_avg | RMS current, NEUTRAL, average of 10/12-cycle intervals | A | 600 |
| v_NG_harm_0_avg | RMS voltage, between N and G, harmonic component DC, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_1_avg | RMS voltage, between N and G, harmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_2_avg | RMS voltage, between N and G, harmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_3_avg | RMS voltage, between N and G, harmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_4_avg | RMS voltage, between N and G, harmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_5_avg | RMS voltage, between N and G, harmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_6_avg | RMS voltage, between N and G, harmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_7_avg | RMS voltage, between N and G, harmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_8_avg | RMS voltage, between N and G, harmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_9_avg | RMS voltage, between N and G, harmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_10_avg | RMS voltage, between N and G, harmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_11_avg | RMS voltage, between N and G, harmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_12_avg | RMS voltage, between N and G, harmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_13_avg | RMS voltage, between N and G, harmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_14_avg | RMS voltage, between N and G, harmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_15_avg | RMS voltage, between N and G, harmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_16_avg | RMS voltage, between N and G, harmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_17_avg | RMS voltage, between N and G, harmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_18_avg | RMS voltage, between N and G, harmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_19_avg | RMS voltage, between N and G, harmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_20_avg | RMS voltage, between N and G, harmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_21_avg | RMS voltage, between N and G, harmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_22_avg | RMS voltage, between N and G, harmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_23_avg | RMS voltage, between N and G, harmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_24_avg | RMS voltage, between N and G, harmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_25_avg | RMS voltage, between N and G, harmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_26_avg | RMS voltage, between N and G, harmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_27_avg | RMS voltage, between N and G, harmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_28_avg | RMS voltage, between N and G, harmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_29_avg | RMS voltage, between N and G, harmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_30_avg | RMS voltage, between N and G, harmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_31_avg | RMS voltage, between N and G, harmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_32_avg | RMS voltage, between N and G, harmonic component #32, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_NG_harm_33_avg | RMS voltage, between N and G, harmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_34_avg | RMS voltage, between N and G, harmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_35_avg | RMS voltage, between N and G, harmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_36_avg | RMS voltage, between N and G, harmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_37_avg | RMS voltage, between N and G, harmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_38_avg | RMS voltage, between N and G, harmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_39_avg | RMS voltage, between N and G, harmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_40_avg | RMS voltage, between N and G, harmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_41_avg | RMS voltage, between N and G, harmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_42_avg | RMS voltage, between N and G, harmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_43_avg | RMS voltage, between N and G, harmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_44_avg | RMS voltage, between N and G, harmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_45_avg | RMS voltage, between N and G, harmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_46_avg | RMS voltage, between N and G, harmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_47_avg | RMS voltage, between N and G, harmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_48_avg | RMS voltage, between N and G, harmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_49_avg | RMS voltage, between N and G, harmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_NG_harm_50_avg | RMS voltage, between N and G, harmonic component #50, average of 10/12-cycle intervals | V | 600 |
| a_NG_harm_0_avg | RMS current, between N and G, harmonic component DC, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_1_avg | RMS current, between N and G, harmonic component #1, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_2_avg | RMS current, between N and G, harmonic component #2, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_3_avg | RMS current, between N and G, harmonic component #3, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_4_avg | RMS current, between N and G, harmonic component #4, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_5_avg | RMS current, between N and G, harmonic component #5, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_6_avg | RMS current, between N and G, harmonic component #6, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_7_avg | RMS current, between N and G, harmonic component #7, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_8_avg | RMS current, between N and G, harmonic component #8, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_9_avg | RMS current, between N and G, harmonic component #9, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_10_avg | RMS current, between N and G, harmonic component #10, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_11_avg | RMS current, between N and G, harmonic component #11, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_12_avg | RMS current, between N and G, harmonic component #12, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_13_avg | RMS current, between N and G, harmonic component #13, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_14_avg | RMS current, between N and G, harmonic component #14, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_15_avg | RMS current, between N and G, harmonic component #15, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_16_avg | RMS current, between N and G, harmonic component #16, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_17_avg | RMS current, between N and G, harmonic component #17, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_18_avg | RMS current, between N and G, harmonic component #18, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_19_avg | RMS current, between N and G, harmonic component #19, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_20_avg | RMS current, between N and G, harmonic component #20, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_NG_harm_21_avg | RMS current, between N and G, harmonic component #21, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_22_avg | RMS current, between N and G, harmonic component #22, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_23_avg | RMS current, between N and G, harmonic component #23, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_24_avg | RMS current, between N and G, harmonic component #24, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_25_avg | RMS current, between N and G, harmonic component #25, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_26_avg | RMS current, between N and G, harmonic component #26, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_27_avg | RMS current, between N and G, harmonic component #27, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_28_avg | RMS current, between N and G, harmonic component #28, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_29_avg | RMS current, between N and G, harmonic component #29, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_30_avg | RMS current, between N and G, harmonic component #30, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_31_avg | RMS current, between N and G, harmonic component #31, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_32_avg | RMS current, between N and G, harmonic component #32, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_33_avg | RMS current, between N and G, harmonic component #33, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_34_avg | RMS current, between N and G, harmonic component #34, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_35_avg | RMS current, between N and G, harmonic component #35, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_36_avg | RMS current, between N and G, harmonic component #36, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_37_avg | RMS current, between N and G, harmonic component #37, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_38_avg | RMS current, between N and G, harmonic component #38, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_39_avg | RMS current, between N and G, harmonic component #39, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_40_avg | RMS current, between N and G, harmonic component #40, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_41_avg | RMS current, between N and G, harmonic component #41, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_42_avg | RMS current, between N and G, harmonic component #42, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_43_avg | RMS current, between N and G, harmonic component #43, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_44_avg | RMS current, between N and G, harmonic component #44, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_45_avg | RMS current, between N and G, harmonic component #45, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_46_avg | RMS current, between N and G, harmonic component #46, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_47_avg | RMS current, between N and G, harmonic component #47, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_48_avg | RMS current, between N and G, harmonic component #48, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_49_avg | RMS current, between N and G, harmonic component #49, average of 10/12-cycle intervals | A | 600 |
| a_NG_harm_50_avg | RMS current, between N and G, harmonic component #50, average of 10/12-cycle intervals | A | 600 |
| v_NG_THD_avg | RMS voltage, between N and G, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| a_NG_THD_avg | RMS current, between N and G, total harmonic distortion, average of 10/12-cycle intervals | % | 600 |
| v_NG_max | RMS voltage, between NEUTRAL and GROUND, maximum of 10/12-cycle intervals | V | 600 |
| a_NG_max | RMS current, NEUTRAL, maximum of 10/12-cycle intervals | A | 600 |
| v_NG_harm_0_max | RMS voltage, between N and G, harmonic component DC, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_1_max | RMS voltage, between N and G, harmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_2_max | RMS voltage, between N and G, harmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_3_max | RMS voltage, between N and G, harmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_4_max | RMS voltage, between N and G, harmonic component #4, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_NG_harm_5_max | RMS voltage, between N and G, harmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_6_max | RMS voltage, between N and G, harmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_7_max | RMS voltage, between N and G, harmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_8_max | RMS voltage, between N and G, harmonic component #8, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_9_max | RMS voltage, between N and G, harmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_10_max | RMS voltage, between N and G, harmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_11_max | RMS voltage, between N and G, harmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_12_max | RMS voltage, between N and G, harmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_13_max | RMS voltage, between N and G, harmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_14_max | RMS voltage, between N and G, harmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_15_max | RMS voltage, between N and G, harmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_16_max | RMS voltage, between N and G, harmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_17_max | RMS voltage, between N and G, harmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_18_max | RMS voltage, between N and G, harmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_19_max | RMS voltage, between N and G, harmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_20_max | RMS voltage, between N and G, harmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_21_max | RMS voltage, between N and G, harmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_22_max | RMS voltage, between N and G, harmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_23_max | RMS voltage, between N and G, harmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_24_max | RMS voltage, between N and G, harmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_25_max | RMS voltage, between N and G, harmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_26_max | RMS voltage, between N and G, harmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_27_max | RMS voltage, between N and G, harmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_28_max | RMS voltage, between N and G, harmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_29_max | RMS voltage, between N and G, harmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_30_max | RMS voltage, between N and G, harmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_31_max | RMS voltage, between N and G, harmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_32_max | RMS voltage, between N and G, harmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_33_max | RMS voltage, between N and G, harmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_34_max | RMS voltage, between N and G, harmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_35_max | RMS voltage, between N and G, harmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_36_max | RMS voltage, between N and G, harmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_37_max | RMS voltage, between N and G, harmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_38_max | RMS voltage, between N and G, harmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_39_max | RMS voltage, between N and G, harmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_40_max | RMS voltage, between N and G, harmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_41_max | RMS voltage, between N and G, harmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_42_max | RMS voltage, between N and G, harmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_43_max | RMS voltage, between N and G, harmonic component #43, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_NG_harm_44_max | RMS voltage, between N and G, harmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_45_max | RMS voltage, between N and G, harmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_46_max | RMS voltage, between N and G, harmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_47_max | RMS voltage, between N and G, harmonic component #47, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_48_max | RMS voltage, between N and G, harmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_49_max | RMS voltage, between N and G, harmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_harm_50_max | RMS voltage, between N and G, harmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| a_NG_harm_0_max | RMS current, between N and G, harmonic component DC, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_1_max | RMS current, between N and G, harmonic component #1, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_2_max | RMS current, between N and G, harmonic component #2, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_3_max | RMS current, between N and G, harmonic component #3, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_4_max | RMS current, between N and G, harmonic component #4, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_5_max | RMS current, between N and G, harmonic component #5, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_6_max | RMS current, between N and G, harmonic component #6, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_7_max | RMS current, between N and G, harmonic component #7, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_8_max | RMS current, between N and G, harmonic component #8, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_9_max | RMS current, between N and G, harmonic component #9, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_10_max | RMS current, between N and G, harmonic component #10, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_11_max | RMS current, between N and G, harmonic component #11, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_12_max | RMS current, between N and G, harmonic component #12, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_13_max | RMS current, between N and G, harmonic component #13, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_14_max | RMS current, between N and G, harmonic component #14, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_15_max | RMS current, between N and G, harmonic component #15, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_16_max | RMS current, between N and G, harmonic component #16, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_17_max | RMS current, between N and G, harmonic component #17, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_18_max | RMS current, between N and G, harmonic component #18, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_19_max | RMS current, between N and G, harmonic component #19, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_20_max | RMS current, between N and G, harmonic component #20, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_21_max | RMS current, between N and G, harmonic component #21, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_22_max | RMS current, between N and G, harmonic component #22, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_23_max | RMS current, between N and G, harmonic component #23, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_24_max | RMS current, between N and G, harmonic component #24, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_25_max | RMS current, between N and G, harmonic component #25, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_26_max | RMS current, between N and G, harmonic component #26, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_27_max | RMS current, between N and G, harmonic component #27, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_28_max | RMS current, between N and G, harmonic component #28, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_29_max | RMS current, between N and G, harmonic component #29, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_30_max | RMS current, between N and G, harmonic component #30, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_31_max | RMS current, between N and G, harmonic component #31, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_NG_harm_32_max | RMS current, between N and G, harmonic component #32, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_33_max | RMS current, between N and G, harmonic component #33, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_34_max | RMS current, between N and G, harmonic component #34, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_35_max | RMS current, between N and G, harmonic component #35, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_36_max | RMS current, between N and G, harmonic component #36, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_37_max | RMS current, between N and G, harmonic component #37, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_38_max | RMS current, between N and G, harmonic component #38, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_39_max | RMS current, between N and G, harmonic component #39, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_40_max | RMS current, between N and G, harmonic component #40, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_41_max | RMS current, between N and G, harmonic component #41, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_42_max | RMS current, between N and G, harmonic component #42, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_43_max | RMS current, between N and G, harmonic component #43, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_44_max | RMS current, between N and G, harmonic component #44, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_45_max | RMS current, between N and G, harmonic component #45, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_46_max | RMS current, between N and G, harmonic component #46, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_47_max | RMS current, between N and G, harmonic component #47, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_48_max | RMS current, between N and G, harmonic component #48, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_49_max | RMS current, between N and G, harmonic component #49, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_harm_50_max | RMS current, between N and G, harmonic component #50, maximum of 10/12-cycle intervals | A | 600 |
| v_NG_THD_max | RMS voltage, between N and G, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| a_NG_THD_max | RMS current, between N and G, total harmonic distortion, maximum of 10/12-cycle intervals | % | 600 |
| v_NG_iharm_0_min | RMS voltage, between N and G, interharmonic component #0, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_1_min | RMS voltage, between N and G, interharmonic component #1, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_2_min | RMS voltage, between N and G, interharmonic component #2, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_3_min | RMS voltage, between N and G, interharmonic component #3, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_4_min | RMS voltage, between N and G, interharmonic component #4, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_5_min | RMS voltage, between N and G, interharmonic component #5, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_6_min | RMS voltage, between N and G, interharmonic component #6, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_7_min | RMS voltage, between N and G, interharmonic component #7, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_8_min | RMS voltage, between N and G, interharmonic component #8, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_9_min | RMS voltage, between N and G, interharmonic component #9, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_10_min | RMS voltage, between N and G, interharmonic component #10, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_11_min | RMS voltage, between N and G, interharmonic component #11, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_12_min | RMS voltage, between N and G, interharmonic component #12, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_13_min | RMS voltage, between N and G, interharmonic component #13, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_14_min | RMS voltage, between N and G, interharmonic component #14, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_15_min | RMS voltage, between N and G, interharmonic component #15, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_16_min | RMS voltage, between N and G, interharmonic component #16, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_17_min | RMS voltage, between N and G, interharmonic component #17, minimum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_NG_iharm_18_min | RMS voltage, between N and G, interharmonic component #18, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_19_min | RMS voltage, between N and G, interharmonic component #19, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_20_min | RMS voltage, between N and G, interharmonic component #20, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_21_min | RMS voltage, between N and G, interharmonic component #21, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_22_min | RMS voltage, between N and G, interharmonic component #22, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_23_min | RMS voltage, between N and G, interharmonic component #23, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_24_min | RMS voltage, between N and G, interharmonic component #24, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_25_min | RMS voltage, between N and G, interharmonic component #25, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_26_min | RMS voltage, between N and G, interharmonic component #26, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_27_min | RMS voltage, between N and G, interharmonic component #27, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_28_min | RMS voltage, between N and G, interharmonic component #28, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_29_min | RMS voltage, between N and G, interharmonic component #29, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_30_min | RMS voltage, between N and G, interharmonic component #30, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_31_min | RMS voltage, between N and G, interharmonic component #31, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_32_min | RMS voltage, between N and G, interharmonic component #32, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_33_min | RMS voltage, between N and G, interharmonic component #33, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_34_min | RMS voltage, between N and G, interharmonic component #34, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_35_min | RMS voltage, between N and G, interharmonic component #35, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_36_min | RMS voltage, between N and G, interharmonic component #36, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_37_min | RMS voltage, between N and G, interharmonic component #37, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_38_min | RMS voltage, between N and G, interharmonic component #38, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_39_min | RMS voltage, between N and G, interharmonic component #39, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_40_min | RMS voltage, between N and G, interharmonic component #40, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_41_min | RMS voltage, between N and G, interharmonic component #41, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_42_min | RMS voltage, between N and G, interharmonic component #42, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_43_min | RMS voltage, between N and G, interharmonic component #43, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_44_min | RMS voltage, between N and G, interharmonic component #44, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_45_min | RMS voltage, between N and G, interharmonic component #45, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_46_min | RMS voltage, between N and G, interharmonic component #46, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_47_min | RMS voltage, between N and G, interharmonic component #47, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_48_min | RMS voltage, between N and G, interharmonic component #48, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_49_min | RMS voltage, between N and G, interharmonic component #49, minimum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_50_min | RMS voltage, between N and G, interharmonic component #50, minimum of 10/12-cycle intervals | V | 600 |
| a_NG_iharm_0_min | RMS current, between N and G, interharmonic component #0, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_1_min | RMS current, between N and G, interharmonic component #1, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_2_min | RMS current, between N and G, interharmonic component #2, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_3_min | RMS current, between N and G, interharmonic component #3, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_4_min | RMS current, between N and G, interharmonic component #4, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_5_min | RMS current, between N and G, interharmonic component #5, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_NG_iharm_6_min | RMS current, between N and G, interharmonic component #6, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_7_min | RMS current, between N and G, interharmonic component #7, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_8_min | RMS current, between N and G, interharmonic component #8, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_9_min | RMS current, between N and G, interharmonic component #9, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_10_min | RMS current, between N and G, interharmonic component #10, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_11_min | RMS current, between N and G, interharmonic component #11, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_12_min | RMS current, between N and G, interharmonic component #12, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_13_min | RMS current, between N and G, interharmonic component #13, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_14_min | RMS current, between N and G, interharmonic component #14, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_15_min | RMS current, between N and G, interharmonic component #15, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_16_min | RMS current, between N and G, interharmonic component #16, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_17_min | RMS current, between N and G, interharmonic component #17, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_18_min | RMS current, between N and G, interharmonic component #18, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_19_min | RMS current, between N and G, interharmonic component #19, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_20_min | RMS current, between N and G, interharmonic component #20, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_21_min | RMS current, between N and G, interharmonic component #21, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_22_min | RMS current, between N and G, interharmonic component #22, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_23_min | RMS current, between N and G, interharmonic component #23, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_24_min | RMS current, between N and G, interharmonic component #24, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_25_min | RMS current, between N and G, interharmonic component #25, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_26_min | RMS current, between N and G, interharmonic component #26, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_27_min | RMS current, between N and G, interharmonic component #27, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_28_min | RMS current, between N and G, interharmonic component #28, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_29_min | RMS current, between N and G, interharmonic component #29, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_30_min | RMS current, between N and G, interharmonic component #30, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_31_min | RMS current, between N and G, interharmonic component #31, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_32_min | RMS current, between N and G, interharmonic component #32, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_33_min | RMS current, between N and G, interharmonic component #33, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_34_min | RMS current, between N and G, interharmonic component #34, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_35_min | RMS current, between N and G, interharmonic component #35, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_36_min | RMS current, between N and G, interharmonic component #36, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_37_min | RMS current, between N and G, interharmonic component #37, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_38_min | RMS current, between N and G, interharmonic component #38, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_39_min | RMS current, between N and G, interharmonic component #39, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_40_min | RMS current, between N and G, interharmonic component #40, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_41_min | RMS current, between N and G, interharmonic component #41, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_42_min | RMS current, between N and G, interharmonic component #42, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_43_min | RMS current, between N and G, interharmonic component #43, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_44_min | RMS current, between N and G, interharmonic component #44, minimum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_NG_iharm_45_min | RMS current, between N and G, interharmonic component #45, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_46_min | RMS current, between N and G, interharmonic component #46, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_47_min | RMS current, between N and G, interharmonic component #47, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_48_min | RMS current, between N and G, interharmonic component #48, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_49_min | RMS current, between N and G, interharmonic component #49, minimum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_50_min | RMS current, between N and G, interharmonic component #50, minimum of 10/12-cycle intervals | A | 600 |
| v_NG_iharm_0_avg | RMS voltage, between N and G, interharmonic component #0, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_1_avg | RMS voltage, between N and G, interharmonic component #1, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_2_avg | RMS voltage, between N and G, interharmonic component #2, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_3_avg | RMS voltage, between N and G, interharmonic component #3, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_4_avg | RMS voltage, between N and G, interharmonic component #4, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_5_avg | RMS voltage, between N and G, interharmonic component #5, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_6_avg | RMS voltage, between N and G, interharmonic component #6, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_7_avg | RMS voltage, between N and G, interharmonic component #7, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_8_avg | RMS voltage, between N and G, interharmonic component #8, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_9_avg | RMS voltage, between N and G, interharmonic component #9, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_10_avg | RMS voltage, between N and G, interharmonic component #10, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_11_avg | RMS voltage, between N and G, interharmonic component #11, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_12_avg | RMS voltage, between N and G, interharmonic component #12, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_13_avg | RMS voltage, between N and G, interharmonic component #13, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_14_avg | RMS voltage, between N and G, interharmonic component #14, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_15_avg | RMS voltage, between N and G, interharmonic component #15, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_16_avg | RMS voltage, between N and G, interharmonic component #16, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_17_avg | RMS voltage, between N and G, interharmonic component #17, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_18_avg | RMS voltage, between N and G, interharmonic component #18, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_19_avg | RMS voltage, between N and G, interharmonic component #19, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_20_avg | RMS voltage, between N and G, interharmonic component #20, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_21_avg | RMS voltage, between N and G, interharmonic component #21, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_22_avg | RMS voltage, between N and G, interharmonic component #22, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_23_avg | RMS voltage, between N and G, interharmonic component #23, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_24_avg | RMS voltage, between N and G, interharmonic component #24, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_25_avg | RMS voltage, between N and G, interharmonic component #25, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_26_avg | RMS voltage, between N and G, interharmonic component #26, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_27_avg | RMS voltage, between N and G, interharmonic component #27, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_28_avg | RMS voltage, between N and G, interharmonic component #28, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_29_avg | RMS voltage, between N and G, interharmonic component #29, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_30_avg | RMS voltage, between N and G, interharmonic component #30, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_31_avg | RMS voltage, between N and G, interharmonic component #31, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_32_avg | RMS voltage, between N and G, interharmonic component #32, average of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_NG_iharm_33_avg | RMS voltage, between N and G, interharmonic component #33, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_34_avg | RMS voltage, between N and G, interharmonic component #34, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_35_avg | RMS voltage, between N and G, interharmonic component #35, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_36_avg | RMS voltage, between N and G, interharmonic component #36, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_37_avg | RMS voltage, between N and G, interharmonic component #37, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_38_avg | RMS voltage, between N and G, interharmonic component #38, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_39_avg | RMS voltage, between N and G, interharmonic component #39, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_40_avg | RMS voltage, between N and G, interharmonic component #40, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_41_avg | RMS voltage, between N and G, interharmonic component #41, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_42_avg | RMS voltage, between N and G, interharmonic component #42, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_43_avg | RMS voltage, between N and G, interharmonic component #43, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_44_avg | RMS voltage, between N and G, interharmonic component #44, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_45_avg | RMS voltage, between N and G, interharmonic component #45, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_46_avg | RMS voltage, between N and G, interharmonic component #46, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_47_avg | RMS voltage, between N and G, interharmonic component #47, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_48_avg | RMS voltage, between N and G, interharmonic component #48, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_49_avg | RMS voltage, between N and G, interharmonic component #49, average of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_50_avg | RMS voltage, between N and G, interharmonic component #50, average of 10/12-cycle intervals | V | 600 |
| a_NG_iharm_0_avg | RMS current, between N and G, interharmonic component #0, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_1_avg | RMS current, between N and G, interharmonic component #1, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_2_avg | RMS current, between N and G, interharmonic component #2, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_3_avg | RMS current, between N and G, interharmonic component #3, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_4_avg | RMS current, between N and G, interharmonic component #4, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_5_avg | RMS current, between N and G, interharmonic component #5, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_6_avg | RMS current, between N and G, interharmonic component #6, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_7_avg | RMS current, between N and G, interharmonic component #7, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_8_avg | RMS current, between N and G, interharmonic component #8, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_9_avg | RMS current, between N and G, interharmonic component #9, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_10_avg | RMS current, between N and G, interharmonic component #10, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_11_avg | RMS current, between N and G, interharmonic component #11, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_12_avg | RMS current, between N and G, interharmonic component #12, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_13_avg | RMS current, between N and G, interharmonic component #13, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_14_avg | RMS current, between N and G, interharmonic component #14, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_15_avg | RMS current, between N and G, interharmonic component #15, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_16_avg | RMS current, between N and G, interharmonic component #16, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_17_avg | RMS current, between N and G, interharmonic component #17, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_18_avg | RMS current, between N and G, interharmonic component #18, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_19_avg | RMS current, between N and G, interharmonic component #19, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_20_avg | RMS current, between N and G, interharmonic component #20, average of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_NG_iharm_21_avg | RMS current, between N and G, interharmonic component #21, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_22_avg | RMS current, between N and G, interharmonic component #22, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_23_avg | RMS current, between N and G, interharmonic component #23, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_24_avg | RMS current, between N and G, interharmonic component #24, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_25_avg | RMS current, between N and G, interharmonic component #25, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_26_avg | RMS current, between N and G, interharmonic component #26, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_27_avg | RMS current, between N and G, interharmonic component #27, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_28_avg | RMS current, between N and G, interharmonic component #28, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_29_avg | RMS current, between N and G, interharmonic component #29, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_30_avg | RMS current, between N and G, interharmonic component #30, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_31_avg | RMS current, between N and G, interharmonic component #31, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_32_avg | RMS current, between N and G, interharmonic component #32, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_33_avg | RMS current, between N and G, interharmonic component #33, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_34_avg | RMS current, between N and G, interharmonic component #34, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_35_avg | RMS current, between N and G, interharmonic component #35, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_36_avg | RMS current, between N and G, interharmonic component #36, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_37_avg | RMS current, between N and G, interharmonic component #37, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_38_avg | RMS current, between N and G, interharmonic component #38, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_39_avg | RMS current, between N and G, interharmonic component #39, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_40_avg | RMS current, between N and G, interharmonic component #40, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_41_avg | RMS current, between N and G, interharmonic component #41, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_42_avg | RMS current, between N and G, interharmonic component #42, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_43_avg | RMS current, between N and G, interharmonic component #43, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_44_avg | RMS current, between N and G, interharmonic component #44, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_45_avg | RMS current, between N and G, interharmonic component #45, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_46_avg | RMS current, between N and G, interharmonic component #46, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_47_avg | RMS current, between N and G, interharmonic component #47, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_48_avg | RMS current, between N and G, interharmonic component #48, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_49_avg | RMS current, between N and G, interharmonic component #49, average of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_50_avg | RMS current, between N and G, interharmonic component #50, average of 10/12-cycle intervals | A | 600 |
| v_NG_iharm_0_max | RMS voltage, between N and G, interharmonic component #0, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_1_max | RMS voltage, between N and G, interharmonic component #1, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_2_max | RMS voltage, between N and G, interharmonic component #2, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_3_max | RMS voltage, between N and G, interharmonic component #3, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_4_max | RMS voltage, between N and G, interharmonic component #4, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_5_max | RMS voltage, between N and G, interharmonic component #5, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_6_max | RMS voltage, between N and G, interharmonic component #6, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_7_max | RMS voltage, between N and G, interharmonic component #7, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_8_max | RMS voltage, between N and G, interharmonic component #8, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_NG_iharm_9_max | RMS voltage, between N and G, interharmonic component #9, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_10_max | RMS voltage, between N and G, interharmonic component #10, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_11_max | RMS voltage, between N and G, interharmonic component #11, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_12_max | RMS voltage, between N and G, interharmonic component #12, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_13_max | RMS voltage, between N and G, interharmonic component #13, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_14_max | RMS voltage, between N and G, interharmonic component #14, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_15_max | RMS voltage, between N and G, interharmonic component #15, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_16_max | RMS voltage, between N and G, interharmonic component #16, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_17_max | RMS voltage, between N and G, interharmonic component #17, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_18_max | RMS voltage, between N and G, interharmonic component #18, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_19_max | RMS voltage, between N and G, interharmonic component #19, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_20_max | RMS voltage, between N and G, interharmonic component #20, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_21_max | RMS voltage, between N and G, interharmonic component #21, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_22_max | RMS voltage, between N and G, interharmonic component #22, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_23_max | RMS voltage, between N and G, interharmonic component #23, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_24_max | RMS voltage, between N and G, interharmonic component #24, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_25_max | RMS voltage, between N and G, interharmonic component #25, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_26_max | RMS voltage, between N and G, interharmonic component #26, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_27_max | RMS voltage, between N and G, interharmonic component #27, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_28_max | RMS voltage, between N and G, interharmonic component #28, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_29_max | RMS voltage, between N and G, interharmonic component #29, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_30_max | RMS voltage, between N and G, interharmonic component #30, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_31_max | RMS voltage, between N and G, interharmonic component #31, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_32_max | RMS voltage, between N and G, interharmonic component #32, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_33_max | RMS voltage, between N and G, interharmonic component #33, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_34_max | RMS voltage, between N and G, interharmonic component #34, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_35_max | RMS voltage, between N and G, interharmonic component #35, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_36_max | RMS voltage, between N and G, interharmonic component #36, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_37_max | RMS voltage, between N and G, interharmonic component #37, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_38_max | RMS voltage, between N and G, interharmonic component #38, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_39_max | RMS voltage, between N and G, interharmonic component #39, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_40_max | RMS voltage, between N and G, interharmonic component #40, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_41_max | RMS voltage, between N and G, interharmonic component #41, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_42_max | RMS voltage, between N and G, interharmonic component #42, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_43_max | RMS voltage, between N and G, interharmonic component #43, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_44_max | RMS voltage, between N and G, interharmonic component #44, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_45_max | RMS voltage, between N and G, interharmonic component #45, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_46_max | RMS voltage, between N and G, interharmonic component #46, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_47_max | RMS voltage, between N and G, interharmonic component #47, maximum of 10/12-cycle intervals | V | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| v_NG_iharm_48_max | RMS voltage, between N and G, interharmonic component #48, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_49_max | RMS voltage, between N and G, interharmonic component #49, maximum of 10/12-cycle intervals | V | 600 |
| v_NG_iharm_50_max | RMS voltage, between N and G, interharmonic component #50, maximum of 10/12-cycle intervals | V | 600 |
| a_NG_iharm_0_max | RMS current, between N and G, interharmonic component #0, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_1_max | RMS current, between N and G, interharmonic component #1, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_2_max | RMS current, between N and G, interharmonic component #2, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_3_max | RMS current, between N and G, interharmonic component #3, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_4_max | RMS current, between N and G, interharmonic component #4, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_5_max | RMS current, between N and G, interharmonic component #5, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_6_max | RMS current, between N and G, interharmonic component #6, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_7_max | RMS current, between N and G, interharmonic component #7, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_8_max | RMS current, between N and G, interharmonic component #8, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_9_max | RMS current, between N and G, interharmonic component #9, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_10_max | RMS current, between N and G, interharmonic component #10, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_11_max | RMS current, between N and G, interharmonic component #11, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_12_max | RMS current, between N and G, interharmonic component #12, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_13_max | RMS current, between N and G, interharmonic component #13, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_14_max | RMS current, between N and G, interharmonic component #14, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_15_max | RMS current, between N and G, interharmonic component #15, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_16_max | RMS current, between N and G, interharmonic component #16, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_17_max | RMS current, between N and G, interharmonic component #17, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_18_max | RMS current, between N and G, interharmonic component #18, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_19_max | RMS current, between N and G, interharmonic component #19, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_20_max | RMS current, between N and G, interharmonic component #20, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_21_max | RMS current, between N and G, interharmonic component #21, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_22_max | RMS current, between N and G, interharmonic component #22, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_23_max | RMS current, between N and G, interharmonic component #23, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_24_max | RMS current, between N and G, interharmonic component #24, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_25_max | RMS current, between N and G, interharmonic component #25, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_26_max | RMS current, between N and G, interharmonic component #26, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_27_max | RMS current, between N and G, interharmonic component #27, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_28_max | RMS current, between N and G, interharmonic component #28, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_29_max | RMS current, between N and G, interharmonic component #29, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_30_max | RMS current, between N and G, interharmonic component #30, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_31_max | RMS current, between N and G, interharmonic component #31, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_32_max | RMS current, between N and G, interharmonic component #32, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_33_max | RMS current, between N and G, interharmonic component #33, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_34_max | RMS current, between N and G, interharmonic component #34, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_35_max | RMS current, between N and G, interharmonic component #35, maximum of 10/12-cycle intervals | A | 600 |

| code | description | units | typical aggregation [s] |
|---|---|---|---|
| a_NG_iharm_36_max | RMS current, between N and G, interharmonic component #36, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_37_max | RMS current, between N and G, interharmonic component #37, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_38_max | RMS current, between N and G, interharmonic component #38, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_39_max | RMS current, between N and G, interharmonic component #39, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_40_max | RMS current, between N and G, interharmonic component #40, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_41_max | RMS current, between N and G, interharmonic component #41, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_42_max | RMS current, between N and G, interharmonic component #42, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_43_max | RMS current, between N and G, interharmonic component #43, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_44_max | RMS current, between N and G, interharmonic component #44, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_45_max | RMS current, between N and G, interharmonic component #45, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_46_max | RMS current, between N and G, interharmonic component #46, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_47_max | RMS current, between N and G, interharmonic component #47, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_48_max | RMS current, between N and G, interharmonic component #48, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_49_max | RMS current, between N and G, interharmonic component #49, maximum of 10/12-cycle intervals | A | 600 |
| a_NG_iharm_50_max | RMS current, between N and G, interharmonic component #50, maximum of 10/12-cycle intervals | A | 600 |
| Active_Energy[kWh] | Consumed active energy | kWh | 600 |
| Delivered_Active_Energy[kWh] | Delivered active energy | kWh | 600 |
| Q1_Reactive_Energy[kVAr] | Reactive energy in quadrant Q1 | kVArh | 600 |
| Q2_Reactive_Energy[kVAr] | Reactive energy in quadrant Q2 | kVArh | 600 |
| Q3_Reactive_Energy[kVAr] | Reactive energy in quadrant Q3 | kVarh | 600 |
| Q4_Reactive_Energy[kVAr] | Reactive energy in quadrant Q4 | kVArh | 600 |
| Apparent_Energy[kVA] | Overall apparent energy | kVAh | 600 |